PHILIPS PHILIPS

Day-Brite CFI

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-A-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33750.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/30/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX16LL40-UNV-A-LFA
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS AISLE OPTICS DIRA-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 13608 LMS
[TESTDATE] 10/30/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13608
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	123.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6000	6520	7646
55	5051	5447	6728
65	4125	4294	5872
75	2997	3098	4596
85	1306	1853	3101

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48
2.5	4261.17	4263.82	4279.57	4291.22	4298.22	4291.22	4279.57	4263.82	4261.17	4263.82
5.0	4239.09	4245.61	4274.71	4301.07	4310.43	4301.07	4274.71	4245.61	4239.09	4245.61
7.5	4200.94	4215.97	4265.41	4313.81	4330.26	4313.81	4265.41	4215.97	4200.94	4215.97
10.0	4146.05	4175.11	4251.09	4329.45	4352.68	4329.45	4251.09	4175.11	4146.05	4175.11
12.5	4077.14	4120.41	4232.02	4339.11	4375.56	4339.11	4232.02	4120.41	4077.14	4120.41
15.0	3993.85	4055.51	4204.90	4345.01	4392.57	4345.01	4204.90	4055.51	3993.85	4055.51
17.5	3894.98	3978.97	4167.97	4345.43	4405.47	4345.43	4167.97	3978.97	3894.98	3978.97
20.0	3781.68	3886.79	4119.91	4337.27	4411.49	4337.27	4119.91	3886.79	3781.68	3886.79
22.5	3657.12	3780.84	4059.48	4321.89	4408.18	4321.89	4059.48	3780.84	3657.12	3780.84
25.0	3522.04	3664.09	3988.94	4292.59	4389.27	4292.59	3988.94	3664.09	3522.04	3664.09
27.5	3374.31	3538.37	3907.99	4248.37	4352.36	4248.37	3907.99	3538.37	3374.31	3538.37
30.0	3217.69	3401.60	3814.11	4187.49	4299.11	4187.49	3814.11	3401.60	3217.69	3401.60
32.5	3054.86	3254.70	3704.80	4104.97	4229.69	4104.97	3704.80	3254.70	3054.86	3254.70
35.0	2888.36	3099.70	3580.40	4006.24	4143.78	4006.24	3580.40	3099.70	2888.36	3099.70
37.5	2718.72	2939.78	3441.64	3895.15	4037.78	3895.15	3441.64	2939.78	2718.72	2939.78
40.0	2548.62	2774.67	3296.01	3768.05	3909.05	3768.05	3296.01	2774.67	2548.62	2774.67
42.5	2379.25	2607.76	3142.89	3618.55	3762.49	3618.55	3142.89	2607.76	2379.25	2607.76
45.0	2210.97	2440.95	2979.51	3451.48	3601.81	3451.48	2979.51	2440.95	2210.97	2440.95
47.5	2045.42	2272.24	2804.87	3275.63	3433.20	3275.63	2804.87	2272.24	2045.42	2272.24
50.0	1884.54	2103.59	2622.92	3096.66	3257.47	3096.66	2622.92	2103.59	1884.54	2103.59
52.5	1729.32	1938.71	2441.40	2912.20	3079.71	2912.20	2441.40	1938.71	1729.32	1938.71
55.0	1577.37	1778.34	2258.99	2721.32	2900.32	2721.32	2258.99	1778.34	1577.37	1778.34
57.5	1430.45	1622.21	2074.26	2534.73	2724.63	2534.73	2074.26	1622.21	1430.45	1622.21
60.0	1288.55	1469.62	1893.43	2356.80	2557.28	2356.80	1893.43	1469.62	1288.55	1469.62
62.5	1151.09	1320.06	1718.96	2183.43	2392.61	2183.43	1718.96	1320.06	1151.09	1320.06
65.0	1017.17	1174.62	1545.46	2007.61	2219.74	2007.61	1545.46	1174.62	1017.17	1174.62
67.5	886.21	1034.31	1377.10	1824.46	2034.03	1824.46	1377.10	1034.31	886.21	1034.31
70.0	759.81	898.48	1216.47	1637.25	1837.07	1637.25	1216.47	898.48	759.81	898.48
72.5	637.56	767.29	1062.05	1452.24	1638.06	1452.24	1062.05	767.29	637.56	767.29
75.0	519.57	640.41	911.50	1269.48	1440.68	1269.48	911.50	640.41	519.57	640.41
77.5	406.02	519.44	766.19	1088.60	1246.05	1088.60	766.19	519.44	406.02	519.44
80.0	299.12	405.78	631.66	922.39	1061.28	922.39	631.66	405.78	299.12	405.78
82.5	203.03	303.68	511.62	772.73	893.91	772.73	511.62	303.68	203.03	303.68
85.0	123.88	218.02	406.83	635.46	742.31	635.46	406.83	218.02	123.88	218.02
87.5	69.78	160.57	329.91	529.44	622.11	529.44	329.91	160.57	69.78	160.57
90.0	48.97	123.84	270.43	443.37	523.54	443.37	270.43	123.84	48.97	123.84
92.5	46.75	105.31	226.90	373.53	441.30	373.53	226.90	105.31	46.75	105.31
95.0	45.55	97.36	197.77	320.47	378.00	320.47	197.77	97.36	45.55	97.36
97.5	44.13	91.04	180.14	282.42	330.90	282.42	180.14	91.04	44.13	91.04
100.0	42.37	84.58	167.84	255.74	296.18	255.74	167.84	84.58	42.37	84.58
102.5	40.06	78.17	156.80	235.95	270.37	235.95	156.80	78.17	40.06	78.17
105.0	37.61	72.02	147.39	219.86	250.55	219.86	147.39	72.02	37.61	72.02
107.5	35.25	66.00	138.08	205.17	233.84	205.17	138.08	66.00	35.25	66.00
110.0	32.73	60.05	129.07	191.85	218.11	191.85	129.07	60.05	32.73	60.05
112.5	30.08	53.93	120.32	179.21	203.42	179.21	120.32	53.93	30.08	53.93
115.0	27.43	47.68	111.45	166.74	189.13	166.74	111.45	47.68	27.43	47.68
117.5	24.96	41.70	102.86	154.81	175.74	154.81	102.86	41.70	24.96	41.70
120.0	22.55	35.78	94.38	144.00	163.62	144.00	94.38	35.78	22.55	35.78
122.5	20.09	29.97	86.13	133.29	150.98	133.29	86.13	29.97	20.09	29.97
125.0	17.81	24.50	77.95	122.11	138.89	122.11	77.95	24.50	17.81	24.50
127.5	15.67	19.19	69.40	112.09	128.64	112.09	69.40	19.19	15.67	19.19
130.0	13.69	14.42	60.85	102.73	117.87	102.73	60.85	14.42	13.69	14.42
132.5	11.92	10.80	52.43	92.72	106.61	92.72	52.43	10.80	11.92	10.80

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CANDELA TABULATION - (Cont.)

135.0	10.25	9.03	43.85	82.65	95.72	82.65	43.85	9.03	10.25	9.03
137.5	8.77	7.63	35.47	72.34	84.78	72.34	35.47	7.63	8.77	7.63
140.0	7.30	6.28	27.49	62.42	73.57	62.42	27.49	6.28	7.30	6.28
142.5	5.92	5.11	20.19	51.88	62.46	51.88	20.19	5.11	5.92	5.11
145.0	4.76	4.10	13.66	41.80	51.29	41.80	13.66	4.10	4.76	4.10
147.5	3.77	3.29	7.98	32.23	40.46	32.23	7.98	3.29	3.77	3.29
150.0	2.97	2.71	3.79	22.80	30.35	22.80	3.79	2.71	2.97	2.71
152.5	2.47	2.51	3.00	14.18	20.45	14.18	3.00	2.51	2.47	2.51
155.0	2.39	2.49	2.87	7.26	11.85	7.26	2.87	2.49	2.39	2.49
157.5	2.42	2.47	2.72	3.45	6.92	3.45	2.72	2.47	2.42	2.47
160.0	2.43	2.41	2.63	2.93	3.19	2.93	2.63	2.41	2.43	2.41
162.5	2.44	2.43	2.54	2.72	2.78	2.72	2.54	2.43	2.44	2.43
165.0	2.48	2.41	2.41	2.51	2.49	2.51	2.41	2.41	2.48	2.41
167.5	2.42	2.27	2.25	2.30	2.28	2.30	2.25	2.27	2.42	2.27
170.0	2.42	2.31	2.18	2.18	2.08	2.18	2.18	2.31	2.42	2.31
172.5	2.50	2.40	2.20	2.12	2.05	2.12	2.20	2.40	2.50	2.40
175.0	2.58	2.47	2.24	2.08	1.99	2.08	2.24	2.47	2.58	2.47
177.5	2.66	2.55	2.17	2.11	2.00	2.11	2.17	2.55	2.66	2.55
180.0	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48	4280.48
2.5	4279.57	4291.22	4298.22	4291.22	4279.57	4263.82	4261.17
5.0	4274.71	4301.07	4310.43	4301.07	4274.71	4245.61	4239.09
7.5	4265.41	4313.81	4330.26	4313.81	4265.41	4215.97	4200.94
10.0	4251.09	4329.45	4352.68	4329.45	4251.09	4175.11	4146.05
12.5	4232.02	4339.11	4375.56	4339.11	4232.02	4120.41	4077.14
15.0	4204.90	4345.01	4392.57	4345.01	4204.90	4055.51	3993.85
17.5	4167.97	4345.43	4405.47	4345.43	4167.97	3978.97	3894.98
20.0	4119.91	4337.27	4411.49	4337.27	4119.91	3886.79	3781.68
22.5	4059.48	4321.89	4408.18	4321.89	4059.48	3780.84	3657.12
25.0	3988.94	4292.59	4389.27	4292.59	3988.94	3664.09	3522.04
27.5	3907.99	4248.37	4352.36	4248.37	3907.99	3538.37	3374.31
30.0	3814.11	4187.49	4299.11	4187.49	3814.11	3401.60	3217.69
32.5	3704.80	4104.97	4229.69	4104.97	3704.80	3254.70	3054.86
35.0	3580.40	4006.24	4143.78	4006.24	3580.40	3099.70	2888.36
37.5	3441.64	3895.15	4037.78	3895.15	3441.64	2939.78	2718.72
40.0	3296.01	3768.05	3909.05	3768.05	3296.01	2774.67	2548.62
42.5	3142.89	3618.55	3762.49	3618.55	3142.89	2607.76	2379.25
45.0	2979.51	3451.48	3601.81	3451.48	2979.51	2440.95	2210.97
47.5	2804.87	3275.63	3433.20	3275.63	2804.87	2272.24	2045.42
50.0	2622.92	3096.66	3257.47	3096.66	2622.92	2103.59	1884.54
52.5	2441.40	2912.20	3079.71	2912.20	2441.40	1938.71	1729.32
55.0	2258.99	2721.32	2900.32	2721.32	2258.99	1778.34	1577.37
57.5	2074.26	2534.73	2724.63	2534.73	2074.26	1622.21	1430.45
60.0	1893.43	2356.80	2557.28	2356.80	1893.43	1469.62	1288.55
62.5	1718.96	2183.43	2392.61	2183.43	1718.96	1320.06	1151.09
65.0	1545.46	2007.61	2219.74	2007.61	1545.46	1174.62	1017.17
67.5	1377.10	1824.46	2034.03	1824.46	1377.10	1034.31	886.21
70.0	1216.47	1637.25	1837.07	1637.25	1216.47	898.48	759.81
72.5	1062.05	1452.24	1638.06	1452.24	1062.05	767.29	637.56
75.0	911.50	1269.48	1440.68	1269.48	911.50	640.41	519.57
77.5	766.19	1088.60	1246.05	1088.60	766.19	519.44	406.02
80.0	631.66	922.39	1061.28	922.39	631.66	405.78	299.12

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CANDELA TABULATION - (Cont.)

82.5	511.62	772.73	893.91	772.73	511.62	303.68	203.03
85.0	406.83	635.46	742.31	635.46	406.83	218.02	123.88
87.5	329.91	529.44	622.11	529.44	329.91	160.57	69.78
90.0	270.43	443.37	523.54	443.37	270.43	123.84	48.97
92.5	226.90	373.53	441.30	373.53	226.90	105.31	46.75
95.0	197.77	320.47	378.00	320.47	197.77	97.36	45.55
97.5	180.14	282.42	330.90	282.42	180.14	91.04	44.13
100.0	167.84	255.74	296.18	255.74	167.84	84.58	42.37
102.5	156.80	235.95	270.37	235.95	156.80	78.17	40.06
105.0	147.39	219.86	250.55	219.86	147.39	72.02	37.61
107.5	138.08	205.17	233.84	205.17	138.08	66.00	35.25
110.0	129.07	191.85	218.11	191.85	129.07	60.05	32.73
112.5	120.32	179.21	203.42	179.21	120.32	53.93	30.08
115.0	111.45	166.74	189.13	166.74	111.45	47.68	27.43
117.5	102.86	154.81	175.74	154.81	102.86	41.70	24.96
120.0	94.38	144.00	163.62	144.00	94.38	35.78	22.55
122.5	86.13	133.29	150.98	133.29	86.13	29.97	20.09
125.0	77.95	122.11	138.89	122.11	77.95	24.50	17.81
127.5	69.40	112.09	128.64	112.09	69.40	19.19	15.67
130.0	60.85	102.73	117.87	102.73	60.85	14.42	13.69
132.5	52.43	92.72	106.61	92.72	52.43	10.80	11.92
135.0	43.85	82.65	95.72	82.65	43.85	9.03	10.25
137.5	35.47	72.34	84.78	72.34	35.47	7.63	8.77
140.0	27.49	62.42	73.57	62.42	27.49	6.28	7.30
142.5	20.19	51.88	62.46	51.88	20.19	5.11	5.92
145.0	13.66	41.80	51.29	41.80	13.66	4.10	4.76
147.5	7.98	32.23	40.46	32.23	7.98	3.29	3.77
150.0	3.79	22.80	30.35	22.80	3.79	2.71	2.97
152.5	3.00	14.18	20.45	14.18	3.00	2.51	2.47
155.0	2.87	7.26	11.85	7.26	2.87	2.49	2.39
157.5	2.72	3.45	6.92	3.45	2.72	2.47	2.42
160.0	2.63	2.93	3.19	2.93	2.63	2.41	2.43
162.5	2.54	2.72	2.78	2.72	2.54	2.43	2.44
165.0	2.41	2.51	2.49	2.51	2.41	2.41	2.48
167.5	2.25	2.30	2.28	2.30	2.25	2.27	2.42
170.0	2.18	2.18	2.08	2.18	2.18	2.31	2.42
172.5	2.20	2.12	2.05	2.12	2.20	2.40	2.50
175.0	2.24	2.08	1.99	2.08	2.24	2.47	2.58
177.5	2.17	2.11	2.00	2.11	2.17	2.55	2.66
180.0	2.32	2.32	2.32	2.32	2.32	2.32	2.32

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1593.72	N.A.	11.70
0-30	3425.1	N.A.	25.20
0-40	5644.02	N.A.	41.50
0-60	9927.77	N.A.	73.00
0-80	12505.47	N.A.	91.90
0-90	12987.61	N.A.	95.40
10-90	12580.34	N.A.	92.50
20-40	4050.3	N.A.	29.80
20-50	6320.15	N.A.	46.40
40-70	5854.39	N.A.	43.00
60-80	2577.71	N.A.	18.90
70-80	1007.07	N.A.	7.40
80-90	482.13	N.A.	3.50
90-110	388.50	N.A.	2.90
90-120	496.73	N.A.	3.70
90-130	565.19	N.A.	4.20
90-150	616.32	N.A.	4.50
90-180	620.03	N.A.	4.60
110-180	231.53	N.A.	1.70
0-180	13607.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	407.26
10-20	1186.45
20-30	1831.38
30-40	2218.92
40-50	2269.85
50-60	2013.9
60-70	1570.64
70-80	1007.07
80-90	482.13
90-100	233.28
100-110	155.23
110-120	108.22
120-130	68.46
130-140	36.88
140-150	14.25
150-160	2.80
160-170	0.70
170-180	0.22

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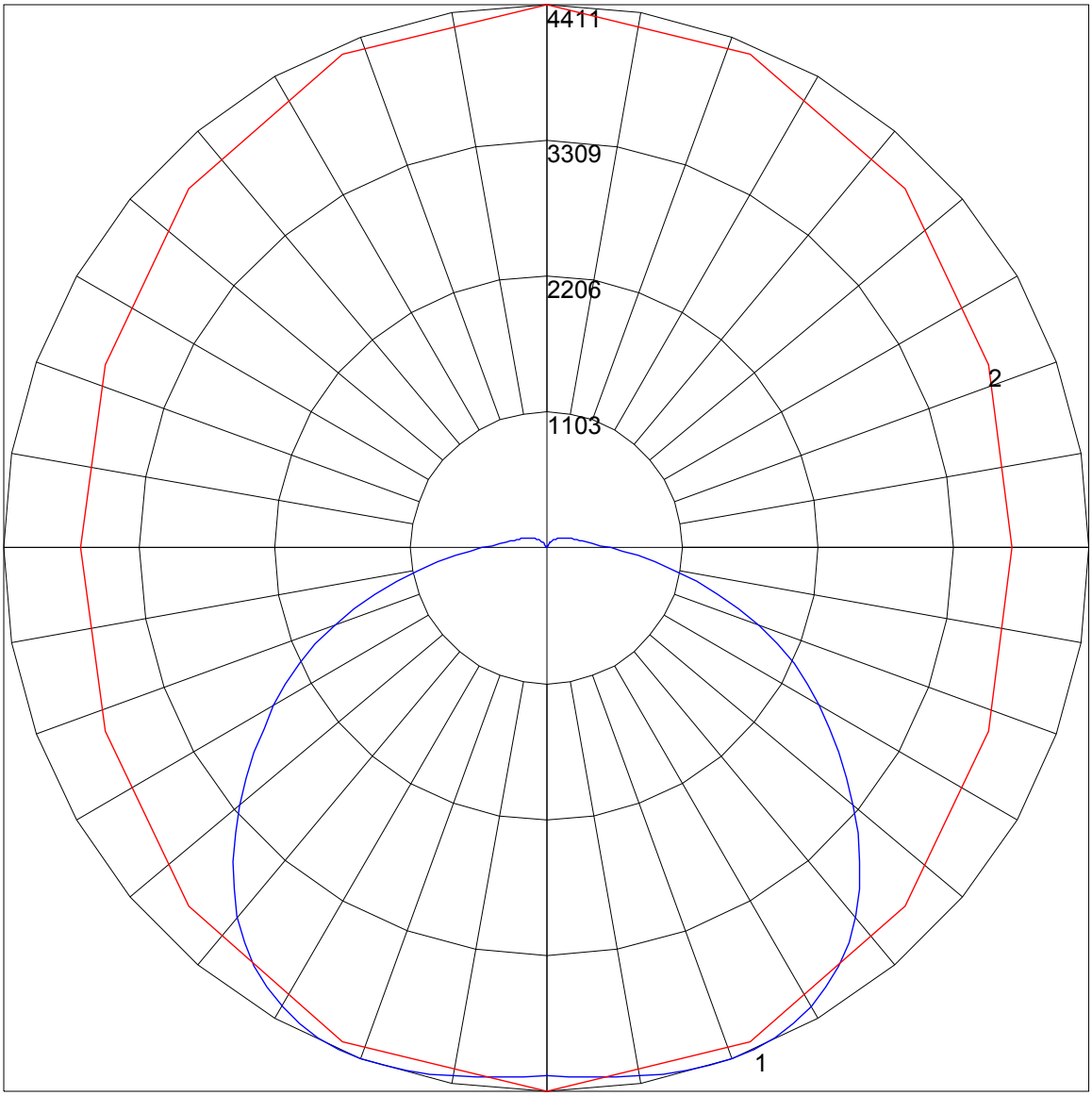
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	102	97	93	104	99	95	91	94	91	87	89	87	84	85	83	81	78
2	97	88	81	75	94	86	80	74	82	76	72	78	73	69	74	70	67	65
3	88	77	69	62	85	76	68	62	72	65	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	39	66	54	45	39	52	44	38	49	43	38	47	42	37	35
7	63	50	41	35	61	49	40	35	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	32	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX16LL40-UNV-A-LFA.IES

POLAR GRAPH



Maximum Candela = 4411.49 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)

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Results derived from content of manufacturers photometric file.