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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33749.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/30/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX16LL40-UNV-A-LCP
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 4.7K RESISTORS AISLE OPTICS DP LENS
[LAMP] LED. LUMINAIRE OUTPUT = 15106 LMS
[TESTDATE] 10/30/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	123.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	2.42
Spacing Criterion (Diagonal)	2.00
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	4226	11017	14759
55	1649	10651	10433
65	1334	2129	10164
75	854	1026	3988
85	524	622	1265

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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	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51
2.5	3422.61	3427.22	3451.37	3481.23	3512.92	3481.23	3451.37	3427.22	3422.61	3427.22
5.0	3413.91	3425.73	3482.45	3546.66	3582.59	3546.66	3482.45	3425.73	3413.91	3425.73
7.5	3393.89	3424.03	3532.47	3647.13	3705.99	3647.13	3532.47	3424.03	3393.89	3424.03
10.0	3366.41	3427.35	3601.64	3788.08	3859.62	3788.08	3601.64	3427.35	3366.41	3427.35
12.5	3330.87	3431.34	3699.02	3949.81	4046.18	3949.81	3699.02	3431.34	3330.87	3431.34
15.0	3286.00	3435.35	3794.31	4124.85	4246.76	4124.85	3794.31	3435.35	3286.00	3435.35
17.5	3227.55	3433.44	3897.97	4322.39	4477.03	4322.39	3897.97	3433.44	3227.55	3433.44
20.0	3162.68	3420.06	4017.78	4540.55	4725.19	4540.55	4017.78	3420.06	3162.68	3420.06
22.5	3083.09	3400.05	4138.68	4774.76	4989.77	4774.76	4138.68	3400.05	3083.09	3400.05
25.0	2992.56	3372.74	4266.18	5015.25	5258.92	5015.25	4266.18	3372.74	2992.56	3372.74
27.5	2879.39	3333.88	4389.84	5262.32	5529.91	5262.32	4389.84	3333.88	2879.39	3333.88
30.0	2752.61	3285.28	4516.06	5505.91	5803.18	5505.91	4516.06	3285.28	2752.61	3285.28
32.5	2597.80	3219.64	4632.99	5742.49	6075.43	5742.49	4632.99	3219.64	2597.80	3219.64
35.0	2409.56	3132.74	4736.13	5967.46	6390.98	5967.46	4736.13	3132.74	2409.56	3132.74
37.5	2204.64	3022.18	4819.07	6245.60	6739.92	6245.60	4819.07	3022.18	2204.64	3022.18
40.0	2003.15	2889.19	4888.76	6532.23	6871.32	6532.23	4888.76	2889.19	2003.15	2889.19
42.5	1780.99	2737.90	4999.68	6654.85	6944.60	6654.85	4999.68	2737.90	1780.99	2737.90
45.0	1557.21	2579.66	5034.61	6617.46	6952.83	6617.46	5034.61	2579.66	1557.21	2579.66
47.5	1322.11	2418.87	4961.35	6620.81	6930.90	6620.81	4961.35	2418.87	1322.11	2418.87
50.0	1055.26	2237.52	4824.35	6482.26	6776.63	6482.26	4824.35	2237.52	1055.26	2237.52
52.5	749.36	1925.53	4607.30	6214.11	5906.02	6214.11	4607.30	1925.53	749.36	1925.53
55.0	515.03	1357.65	4417.68	4676.37	4497.57	4676.37	4417.68	1357.65	515.03	1357.65
57.5	432.53	774.05	4041.41	3644.78	3738.20	3644.78	4041.41	774.05	432.53	774.05
60.0	398.10	507.05	3304.34	2392.87	3464.59	2392.87	3304.34	507.05	398.10	507.05
62.5	364.21	413.37	1692.57	2541.74	4004.76	2541.74	1692.57	413.37	364.21	413.37
65.0	328.84	347.84	766.26	2765.27	3842.44	2765.27	766.26	347.84	328.84	347.84
67.5	290.84	293.82	451.92	2628.02	3440.26	2628.02	451.92	293.82	290.84	293.82
70.0	246.37	241.38	449.50	1929.84	2683.24	1929.84	449.50	241.38	246.37	241.38
72.5	194.60	188.51	391.63	1375.86	1885.28	1375.86	391.63	188.51	194.60	188.51
75.0	147.96	146.16	301.96	862.39	1250.27	862.39	301.96	146.16	147.96	146.16
77.5	112.96	111.27	237.01	508.94	699.21	508.94	237.01	111.27	112.96	111.27
80.0	88.41	91.60	171.71	325.77	450.16	325.77	171.71	91.60	88.41	91.60
82.5	67.82	82.30	143.16	292.90	352.28	292.90	143.16	82.30	67.82	82.30
85.0	49.71	69.80	136.63	281.50	302.91	281.50	136.63	69.80	49.71	69.80
87.5	35.51	62.07	146.31	238.52	254.22	238.52	146.31	62.07	35.51	62.07
90.0	22.34	49.47	116.34	170.05	188.39	170.05	116.34	49.47	22.34	49.47
92.5	17.21	42.78	74.34	101.54	129.78	101.54	74.34	42.78	17.21	42.78
95.0	19.05	31.12	35.92	82.23	115.48	82.23	35.92	31.12	19.05	31.12
97.5	21.24	16.09	22.07	100.63	139.02	100.63	22.07	16.09	21.24	16.09
100.0	20.14	13.35	21.44	101.13	137.04	101.13	21.44	13.35	20.14	13.35
102.5	18.05	13.32	18.76	75.52	109.98	75.52	18.76	13.32	18.05	13.32
105.0	16.18	13.49	16.62	43.65	66.43	43.65	16.62	13.49	16.18	13.49
107.5	14.50	13.17	16.15	35.49	50.64	35.49	16.15	13.17	14.50	13.17
110.0	12.94	12.55	15.98	31.29	44.00	31.29	15.98	12.55	12.94	12.55
112.5	11.35	11.91	15.81	28.51	39.03	28.51	15.81	11.91	11.35	11.91
115.0	9.88	11.45	15.60	26.69	35.47	26.69	15.60	11.45	9.88	11.45
117.5	8.69	11.62	15.50	24.63	32.46	24.63	15.50	11.62	8.69	11.62
120.0	7.89	12.27	15.59	22.06	28.92	22.06	15.59	12.27	7.89	12.27
122.5	7.27	12.14	15.89	19.93	25.68	19.93	15.89	12.14	7.27	12.14
125.0	6.77	10.30	18.16	18.71	23.12	18.71	18.16	10.30	6.77	10.30
127.5	6.27	8.36	23.22	19.81	22.86	19.81	23.22	8.36	6.27	8.36
130.0	5.72	6.88	24.32	27.71	28.46	27.71	24.32	6.88	5.72	6.88
132.5	5.10	5.90	17.89	45.38	52.10	45.38	17.89	5.90	5.10	5.90

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CANDELA TABULATION - (Cont.)

135.0	4.42	4.93	12.37	47.06	52.89	47.06	12.37	4.93	4.42	4.93
137.5	3.75	4.09	9.00	31.91	61.30	31.91	9.00	4.09	3.75	4.09
140.0	3.12	3.30	6.78	19.42	36.58	19.42	6.78	3.30	3.12	3.30
142.5	2.58	2.69	5.19	13.22	20.66	13.22	5.19	2.69	2.58	2.69
145.0	2.17	2.18	3.92	9.87	13.94	9.87	3.92	2.18	2.17	2.18
147.5	1.89	1.87	3.04	7.78	10.34	7.78	3.04	1.87	1.89	1.87
150.0	1.70	1.68	2.50	6.19	8.11	6.19	2.50	1.68	1.70	1.68
152.5	1.55	1.59	2.32	4.79	6.37	4.79	2.32	1.59	1.55	1.59
155.0	1.56	1.62	2.18	3.62	4.83	3.62	2.18	1.62	1.56	1.62
157.5	1.63	1.71	2.03	3.01	3.91	3.01	2.03	1.71	1.63	1.71
160.0	1.69	1.74	2.00	2.66	3.12	2.66	2.00	1.74	1.69	1.74
162.5	1.78	1.74	1.98	2.34	2.65	2.34	1.98	1.74	1.78	1.74
165.0	1.82	1.80	1.86	2.09	2.29	2.09	1.86	1.80	1.82	1.80
167.5	1.77	1.76	1.77	1.91	1.97	1.91	1.77	1.76	1.77	1.76
170.0	1.80	1.71	1.72	1.81	1.77	1.81	1.72	1.71	1.80	1.71
172.5	1.94	1.82	1.73	1.75	1.77	1.75	1.73	1.82	1.94	1.82
175.0	1.97	1.88	1.76	1.71	1.70	1.71	1.76	1.88	1.97	1.88
177.5	2.08	1.97	1.73	1.69	1.66	1.69	1.73	1.97	2.08	1.97
180.0	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51	3447.51
2.5	3451.37	3481.23	3512.92	3481.23	3451.37	3427.22	3422.61
5.0	3482.45	3546.66	3582.59	3546.66	3482.45	3425.73	3413.91
7.5	3532.47	3647.13	3705.99	3647.13	3532.47	3424.03	3393.89
10.0	3601.64	3788.08	3859.62	3788.08	3601.64	3427.35	3366.41
12.5	3699.02	3949.81	4046.18	3949.81	3699.02	3431.34	3330.87
15.0	3794.31	4124.85	4246.76	4124.85	3794.31	3435.35	3286.00
17.5	3897.97	4322.39	4477.03	4322.39	3897.97	3433.44	3227.55
20.0	4017.78	4540.55	4725.19	4540.55	4017.78	3420.06	3162.68
22.5	4138.68	4774.76	4989.77	4774.76	4138.68	3400.05	3083.09
25.0	4266.18	5015.25	5258.92	5015.25	4266.18	3372.74	2992.56
27.5	4389.84	5262.32	5529.91	5262.32	4389.84	3333.88	2879.39
30.0	4516.06	5505.91	5803.18	5505.91	4516.06	3285.28	2752.61
32.5	4632.99	5742.49	6075.43	5742.49	4632.99	3219.64	2597.80
35.0	4736.13	5967.46	6390.98	5967.46	4736.13	3132.74	2409.56
37.5	4819.07	6245.60	6739.92	6245.60	4819.07	3022.18	2204.64
40.0	4888.76	6532.23	6871.32	6532.23	4888.76	2889.19	2003.15
42.5	4999.68	6654.85	6944.60	6654.85	4999.68	2737.90	1780.99
45.0	5034.61	6617.46	6952.83	6617.46	5034.61	2579.66	1557.21
47.5	4961.35	6620.81	6930.90	6620.81	4961.35	2418.87	1322.11
50.0	4824.35	6482.26	6776.63	6482.26	4824.35	2237.52	1055.26
52.5	4607.30	6214.11	5906.02	6214.11	4607.30	1925.53	749.36
55.0	4417.68	4676.37	4497.57	4676.37	4417.68	1357.65	515.03
57.5	4041.41	3644.78	3738.20	3644.78	4041.41	774.05	432.53
60.0	3304.34	2392.87	3464.59	2392.87	3304.34	507.05	398.10
62.5	1692.57	2541.74	4004.76	2541.74	1692.57	413.37	364.21
65.0	766.26	2765.27	3842.44	2765.27	766.26	347.84	328.84
67.5	451.92	2628.02	3440.26	2628.02	451.92	293.82	290.84
70.0	449.50	1929.84	2683.24	1929.84	449.50	241.38	246.37
72.5	391.63	1375.86	1885.28	1375.86	391.63	188.51	194.60
75.0	301.96	862.39	1250.27	862.39	301.96	146.16	147.96
77.5	237.01	508.94	699.21	508.94	237.01	111.27	112.96
80.0	171.71	325.77	450.16	325.77	171.71	91.60	88.41

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CANDELA TABULATION - (Cont.)

82.5	143.16	292.90	352.28	292.90	143.16	82.30	67.82
85.0	136.63	281.50	302.91	281.50	136.63	69.80	49.71
87.5	146.31	238.52	254.22	238.52	146.31	62.07	35.51
90.0	116.34	170.05	188.39	170.05	116.34	49.47	22.34
92.5	74.34	101.54	129.78	101.54	74.34	42.78	17.21
95.0	35.92	82.23	115.48	82.23	35.92	31.12	19.05
97.5	22.07	100.63	139.02	100.63	22.07	16.09	21.24
100.0	21.44	101.13	137.04	101.13	21.44	13.35	20.14
102.5	18.76	75.52	109.98	75.52	18.76	13.32	18.05
105.0	16.62	43.65	66.43	43.65	16.62	13.49	16.18
107.5	16.15	35.49	50.64	35.49	16.15	13.17	14.50
110.0	15.98	31.29	44.00	31.29	15.98	12.55	12.94
112.5	15.81	28.51	39.03	28.51	15.81	11.91	11.35
115.0	15.60	26.69	35.47	26.69	15.60	11.45	9.88
117.5	15.50	24.63	32.46	24.63	15.50	11.62	8.69
120.0	15.59	22.06	28.92	22.06	15.59	12.27	7.89
122.5	15.89	19.93	25.68	19.93	15.89	12.14	7.27
125.0	18.16	18.71	23.12	18.71	18.16	10.30	6.77
127.5	23.22	19.81	22.86	19.81	23.22	8.36	6.27
130.0	24.32	27.71	28.46	27.71	24.32	6.88	5.72
132.5	17.89	45.38	52.10	45.38	17.89	5.90	5.10
135.0	12.37	47.06	52.89	47.06	12.37	4.93	4.42
137.5	9.00	31.91	61.30	31.91	9.00	4.09	3.75
140.0	6.78	19.42	36.58	19.42	6.78	3.30	3.12
142.5	5.19	13.22	20.66	13.22	5.19	2.69	2.58
145.0	3.92	9.87	13.94	9.87	3.92	2.18	2.17
147.5	3.04	7.78	10.34	7.78	3.04	1.87	1.89
150.0	2.50	6.19	8.11	6.19	2.50	1.68	1.70
152.5	2.32	4.79	6.37	4.79	2.32	1.59	1.55
155.0	2.18	3.62	4.83	3.62	2.18	1.62	1.56
157.5	2.03	3.01	3.91	3.01	2.03	1.71	1.63
160.0	2.00	2.66	3.12	2.66	2.00	1.74	1.69
162.5	1.98	2.34	2.65	2.34	1.98	1.74	1.78
165.0	1.86	2.09	2.29	2.09	1.86	1.80	1.82
167.5	1.77	1.91	1.97	1.91	1.77	1.76	1.77
170.0	1.72	1.81	1.77	1.81	1.72	1.71	1.80
172.5	1.73	1.75	1.77	1.75	1.73	1.82	1.94
175.0	1.76	1.71	1.70	1.71	1.76	1.88	1.97
177.5	1.73	1.69	1.66	1.69	1.73	1.97	2.08
180.0	1.81	1.81	1.81	1.81	1.81	1.81	1.81

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1415.25	N.A.	9.40
0-30	3361.3	N.A.	22.30
0-40	6226.96	N.A.	41.20
0-60	12695.33	N.A.	84.00
0-80	14762.22	N.A.	97.70
0-90	14941.73	N.A.	98.90
10-90	14604.98	N.A.	96.70
20-40	4811.71	N.A.	31.90
20-50	8364.68	N.A.	55.40
40-70	7960.56	N.A.	52.70
60-80	2066.89	N.A.	13.70
70-80	574.70	N.A.	3.80
80-90	179.51	N.A.	1.20
90-110	107.56	N.A.	0.70
90-120	126.73	N.A.	0.80
90-130	141.56	N.A.	0.90
90-150	162.00	N.A.	1.10
90-180	164.05	N.A.	1.10
110-180	56.48	N.A.	0.40
0-180	15105.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	336.76
10-20	1078.49
20-30	1946.05
30-40	2865.66
40-50	3552.97
50-60	2915.41
60-70	1492.19
70-80	574.70
80-90	179.51
90-100	72.03
100-110	35.53
110-120	19.17
120-130	14.83
130-140	16.11
140-150	4.33
150-160	1.32
160-170	0.56
170-180	0.17

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

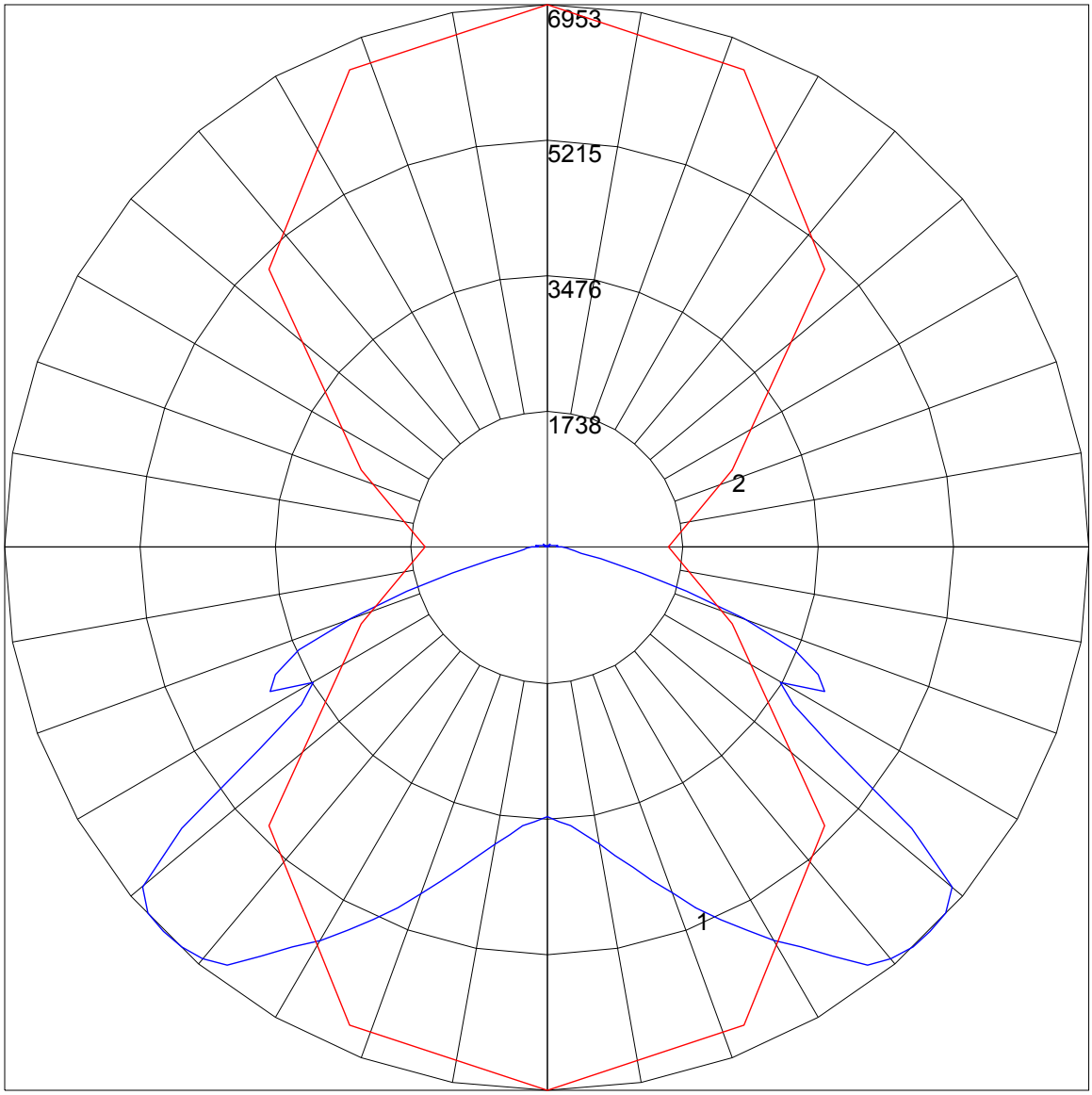
Effective Floor Cavity Reflectance 0.20

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	49	45	43
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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

POLAR GRAPH



Maximum Candela = 6952.83 Located At Horizontal Angle = 90, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)