IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-M-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO33956.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 12/22/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX12LL40-UNV-M-LFA
[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER MEDIUM OPTICS NO RESISTOR DIRA-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 10386 LMS
[TESTDATE] 12/22/14

CHARACTERISTICS



Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10386
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	95.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5181	4510	4469
55	4021	3284	3266
65	3093	2361	2368
75	2143	1540	1620
85	834	763	978

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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	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18
2.5	5141.99	5143.47	5154.44	5154.31	5151.22	5154.31	5154.44	5143.47	5141.99	5143.47
5.0	5105.22	5105.15	5123.52	5130.65	5125.16	5130.65	5123.52	5105.15	5105.22	5105.15
7.5	5043.67	5043.08	5068.57	5082.22	5082.18	5082.22	5068.57	5043.08	5043.67	5043.08
10.0	4953.43	4959.20	4989.45	5018.19	5017.06	5018.19	4989.45	4959.20	4953.43	4959.20
12.5	4839.08	4852.49	4890.62	4921.85	4927.82	4921.85	4890.62	4852.49	4839.08	4852.49
15.0	4699.76	4721.36	4770.59	4803.69	4810.11	4803.69	4770.59	4721.36	4699.76	4721.36
17.5	4539.06	4565.83	4624.36	4663.69	4675.55	4663.69	4624.36	4565.83	4539.06	4565.83
20.0	4353.00	4385.72	4454.76	4503.14	4518.93	4503.14	4454.76	4385.72	4353.00	4385.72
22.5	4148.45	4186.57	4264.60	4322.85	4337.85	4322.85	4264.60	4186.57	4148.45	4186.57
25.0	3930.25	3972.07	4059.63	4118.40	4133.80	4118.40	4059.63	3972.07	3930.25	3972.07
27.5	3698.80	3745.09	3839.58	3898.70	3915.77	3898.70	3839.58	3745.09	3698.80	3745.09
30.0	3462.17	3509.12	3606.90	3663.68	3679.33	3663.68	3606.90	3509.12	3462.17	3509.12
32.5	3217.32	3268.44	3368.50	3417.07	3427.54	3417.07	3368.50	3268.44	3217.32	3268.44
35.0	2973.74	3027.98	3125.02	3168.23	3181.46	3168.23	3125.02	3027.98	2973.74	3027.98
37.5	2737.55	2789.03	2880.40	2923.68	2940.52	2923.68	2880.40	2789.03	2737.55	2789.03
40.0	2505.71	2556.51	2643.95	2685.04	2695.32	2685.04	2643.95	2556.51	2505.71	2556.51
42.5	2283.99	2332.59	2416.67	2452.78	2455.95	2452.78	2416.67	2332.59	2283.99	2332.59
45.0	2072.60	2120.32	2198.64	2227.74	2231.28	2227.74	2198.64	2120.32	2072.60	2120.32
47.5	1874.49	1917.66	1992.60	2014.01	2020.72	2014.01	1992.60	1917.66	1874.49	1917.66
50.0	1689.71	1728.33	1797.87	1819.51	1826.23	1819.51	1797.87	1728.33	1689.71	1728.33
52.5	1519.68	1554.78	1614.41	1642.39	1648.66	1642.39	1614.41	1554.78	1519.68	1554.78
55.0	1363.02	1392.87	1445.91	1473.86	1482.61	1473.86	1445.91	1392.87	1363.02	1392.87
57.5	1215.54	1243.90	1294.89	1319.12	1325.17	1319.12	1294.89	1243.90	1215.54	1243.90
60.0	1078.07	1105.52	1153.29	1178.65	1185.15	1178.65	1153.29	1105.52	1078.07	1105.52
62.5	948.26	975.99	1020.39	1049.87	1057.67	1049.87	1020.39	975.99	948.26	975.99
65.0	827.81	852.71	896.85	927.99	934.91	927.99	896.85	852.71	827.81	852.71
67.5	713.07	737.24	781.45	812.00	818.50	812.00	781.45	737.24	713.07	737.24
70.0	604.41	629.42	671.72	705.14	714.18	705.14	671.72	629.42	604.41	629.42
72.5	500.64	526.39	569.29	607.06	618.02	607.06	569.29	526.39	500.64	526.39
75.0	403.16	428.74	473.97	513.24	524.49	513.24	473.97	428.74	403.16	428.74
77.5	310.48	336.34	383.96	426.29	438.06	426.29	383.96	336.34	310.48	336.34
80.0	224.35	251.80	301.75	348.11	362.10	348.11	301.75	251.80	224.35	251.80
82.5	148.49	176.75	230.72	280.00	295.14	280.00	230.72	176.75	148.49	176.75
85.0	85.89	115.65	172.72	222.28	237.63	222.28	172.72	115.65	85.89	115.65
87.5	43.29	74.94	131.63	180.46	195.91	180.46	131.63	74.94	43.29	74.94
90.0	27.28	51.35	100.91	146.15	161.50	146.15	100.91	51.35	27.28	51.35
92.5	25.99	41.53	79.42	118.34	132.10	118.34	79.42	41.53	25.99	41.53
95.0	25.32	38.85	67.46	98.63	110.52	98.63	67.46	38.85	25.32	38.85
97.5	24.57	36.55	62.58	87.49	97.45	87.49	62.58	36.55	24.57	36.55
100.0	23.63	34.10	59.34	82.24	90.69	82.24	59.34	34.10	23.63	34.10
102.5	22.33	31.58	56.27	78.72	86.96	78.72	56.27	31.58	22.33	31.58
105.0	20.89	29.10	53.41	75.62	84.01	75.62	53.41	29.10	20.89	29.10
107.5	19.44	26.60	50.44	72.28	80.96	72.28	50.44	26.60	19.44	26.60
110.0	17.88	24.05	47.44	68.83	77.56	68.83	47.44	24.05	17.88	24.05
112.5	16.19	21.40	44.25	65.17	73.90	65.17	44.25	21.40	16.19	21.40
115.0	14.51	18.67	40.89	61.29	69.86	61.29	40.89	18.67	14.51	18.67
117.5	12.93	16.03	37.56	57.27	65.68	57.27	37.56	16.03	12.93	16.03
120.0	11.43	13.51	34.19	53.39	61.59	53.39	34.19	13.51	11.43	13.51
122.5	9.97	11.17	30.80	49.47	57.02	49.47	30.80	11.17	9.97	11.17
125.0	8.57	9.01	27.40	45.10	52.72	45.10	27.40	9.01	8.57	9.01
127.5	7.30	6.89	23.91	41.11	48.57	41.11	23.91	6.89	7.30	6.89
130.0	6.15	5.18	20.45	37.24	44.05	37.24	20.45	5.18	6.15	5.18
132.5	5.13	4.09	16.96	33.10	39.53	33.10	16.96	4.09	5.13	4.09

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CANDELA TABULATION - (Cont.)

135.0	4.20	3.20	13.64	28.87	34.93	28.87	13.64	3.20	4.20	3.20
137.5	3.35	2.43	10.53	24.69	30.18	24.69	10.53	2.43	3.35	2.43
140.0	2.53	1.74	7.57	20.59	25.58	20.59	7.57	1.74	2.53	1.74
142.5	1.77	1.14	4.99	16.53	21.14	16.53	4.99	1.14	1.77	1.14
145.0	1.16	0.64	2.98	12.71	16.75	12.71	2.98	0.64	1.16	0.64
147.5	0.64	0.25	1.39	9.21	12.60	9.21	1.39	0.25	0.64	0.25
150.0	0.28	0.00	0.31	6.08	8.90	6.08	0.31	0.00	0.28	0.00
152.5	0.09	0.04	0.22	3.40	5.66	3.40	0.22	0.04	0.09	0.04
155.0	0.16	0.12	0.22	1.31	2.96	1.31	0.22	0.12	0.16	0.12
157.5	0.22	0.17	0.22	0.66	1.31	0.66	0.22	0.17	0.22	0.17
160.0	0.32	0.27	0.27	0.62	0.88	0.62	0.27	0.27	0.32	0.27
162.5	0.41	0.35	0.32	0.59	0.80	0.59	0.32	0.35	0.41	0.35
165.0	0.48	0.41	0.35	0.56	0.72	0.56	0.35	0.41	0.48	0.41
167.5	0.45	0.40	0.32	0.51	0.67	0.51	0.32	0.40	0.45	0.40
170.0	0.49	0.44	0.35	0.51	0.63	0.51	0.35	0.44	0.49	0.44
172.5	0.63	0.59	0.47	0.56	0.70	0.56	0.47	0.59	0.63	0.59
175.0	0.75	0.71	0.58	0.63	0.73	0.63	0.58	0.71	0.75	0.71
177.5	0.85	0.83	0.59	0.64	0.78	0.64	0.59	0.83	0.85	0.83
180.0	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18	5161.18
2.5	5154.44	5154.31	5151.22	5154.31	5154.44	5143.47	5141.99
5.0	5123.52	5130.65	5125.16	5130.65	5123.52	5105.15	5105.22
7.5	5068.57	5082.22	5082.18	5082.22	5068.57	5043.08	5043.67
10.0	4989.45	5018.19	5017.06	5018.19	4989.45	4959.20	4953.43
12.5	4890.62	4921.85	4927.82	4921.85	4890.62	4852.49	4839.08
15.0	4770.59	4803.69	4810.11	4803.69	4770.59	4721.36	4699.76
17.5	4624.36	4663.69	4675.55	4663.69	4624.36	4565.83	4539.06
20.0	4454.76	4503.14	4518.93	4503.14	4454.76	4385.72	4353.00
22.5	4264.60	4322.85	4337.85	4322.85	4264.60	4186.57	4148.45
25.0	4059.63	4118.40	4133.80	4118.40	4059.63	3972.07	3930.25
27.5	3839.58	3898.70	3915.77	3898.70	3839.58	3745.09	3698.80
30.0	3606.90	3663.68	3679.33	3663.68	3606.90	3509.12	3462.17
32.5	3368.50	3417.07	3427.54	3417.07	3368.50	3268.44	3217.32
35.0	3125.02	3168.23	3181.46	3168.23	3125.02	3027.98	2973.74
37.5	2880.40	2923.68	2940.52	2923.68	2880.40	2789.03	2737.55
40.0	2643.95	2685.04	2695.32	2685.04	2643.95	2556.51	2505.71
42.5	2416.67	2452.78	2455.95	2452.78	2416.67	2332.59	2283.99
45.0	2198.64	2227.74	2231.28	2227.74	2198.64	2120.32	2072.60
47.5	1992.60	2014.01	2020.72	2014.01	1992.60	1917.66	1874.49
50.0	1797.87	1819.51	1826.23	1819.51	1797.87	1728.33	1689.71
52.5	1614.41	1642.39	1648.66	1642.39	1614.41	1554.78	1519.68
55.0	1445.91	1473.86	1482.61	1473.86	1445.91	1392.87	1363.02
57.5	1294.89	1319.12	1325.17	1319.12	1294.89	1243.90	1215.54
60.0	1153.29	1178.65	1185.15	1178.65	1153.29	1105.52	1078.07
62.5	1020.39	1049.87	1057.67	1049.87	1020.39	975.99	948.26
65.0	896.85	927.99	934.91	927.99	896.85	852.71	827.81
67.5	781.45	812.00	818.50	812.00	781.45	737.24	713.07
70.0	671.72	705.14	714.18	705.14	671.72	629.42	604.41
72.5	569.29	607.06	618.02	607.06	569.29	526.39	500.64
75.0	473.97	513.24	524.49	513.24	473.97	428.74	403.16
77.5	383.96	426.29	438.06	426.29	383.96	336.34	310.48
80.0	301.75	348.11	362.10	348.11	301.75	251.80	224.35

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CANDELA TABULATION - (Cont.)

82.5	230.72	280.00	295.14	280.00	230.72	176.75	148.49
85.0	172.72	222.28	237.63	222.28	172.72	115.65	85.89
87.5	131.63	180.46	195.91	180.46	131.63	74.94	43.29
90.0	100.91	146.15	161.50	146.15	100.91	51.35	27.28
92.5	79.42	118.34	132.10	118.34	79.42	41.53	25.99
95.0	67.46	98.63	110.52	98.63	67.46	38.85	25.32
97.5	62.58	87.49	97.45	87.49	62.58	36.55	24.57
100.0	59.34	82.24	90.69	82.24	59.34	34.10	23.63
102.5	56.27	78.72	86.96	78.72	56.27	31.58	22.33
105.0	53.41	75.62	84.01	75.62	53.41	29.10	20.89
107.5	50.44	72.28	80.96	72.28	50.44	26.60	19.44
110.0	47.44	68.83	77.56	68.83	47.44	24.05	17.88
112.5	44.25	65.17	73.90	65.17	44.25	21.40	16.19
115.0	40.89	61.29	69.86	61.29	40.89	18.67	14.51
117.5	37.56	57.27	65.68	57.27	37.56	16.03	12.93
120.0	34.19	53.39	61.59	53.39	34.19	13.51	11.43
122.5	30.80	49.47	57.02	49.47	30.80	11.17	9.97
125.0	27.40	45.10	52.72	45.10	27.40	9.01	8.57
127.5	23.91	41.11	48.57	41.11	23.91	6.89	7.30
130.0	20.45	37.24	44.05	37.24	20.45	5.18	6.15
132.5	16.96	33.10	39.53	33.10	16.96	4.09	5.13
135.0	13.64	28.87	34.93	28.87	13.64	3.20	4.20
137.5	10.53	24.69	30.18	24.69	10.53	2.43	3.35
140.0	7.57	20.59	25.58	20.59	7.57	1.74	2.53
142.5	4.99	16.53	21.14	16.53	4.99	1.14	1.77
145.0	2.98	12.71	16.75	12.71	2.98	0.64	1.16
147.5	1.39	9.21	12.60	9.21	1.39	0.25	0.64
150.0	0.31	6.08	8.90	6.08	0.31	0.00	0.28
152.5	0.22	3.40	5.66	3.40	0.22	0.04	0.09
155.0	0.22	1.31	2.96	1.31	0.22	0.12	0.16
157.5	0.22	0.66	1.31	0.66	0.22	0.17	0.22
160.0	0.27	0.62	0.88	0.62	0.27	0.27	0.32
162.5	0.32	0.59	0.80	0.59	0.32	0.35	0.41
165.0	0.35	0.56	0.72	0.56	0.35	0.41	0.48
167.5	0.32	0.51	0.67	0.51	0.32	0.40	0.45
170.0	0.35	0.51	0.63	0.51	0.35	0.44	0.49
172.5	0.47	0.56	0.70	0.56	0.47	0.59	0.63
175.0	0.58	0.63	0.73	0.63	0.58	0.71	0.75
177.5	0.59	0.64	0.78	0.64	0.59	0.83	0.85
180.0	0.72	0.72	0.72	0.72	0.72	0.72	0.72

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1821.75	N.A.	17.50
0-30	3677.62	N.A.	35.40
0-40	5614.19	N.A.	54.10
0-60	8585.91	N.A.	82.70
0-80	9972.02	N.A.	96.00
0-90	10168.29	N.A.	97.90
10-90	9683.86	N.A.	93.20
20-40	3792.44	N.A.	36.50
20-50	5474.55	N.A.	52.70
40-70	3857.22	N.A.	37.10
60-80	1386.11	N.A.	13.30
70-80	500.61	N.A.	4.80
80-90	196.27	N.A.	1.90
90-110	134.28	N.A.	1.30
90-120	174.80	N.A.	1.70
90-130	200.12	N.A.	1.90
90-150	217.13	N.A.	2.10
90-180	217.86	N.A.	2.10
110-180	83.59	N.A.	0.80
0-180	10386.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	484.43
10-20	1337.32
20-30	1855.88
30-40	1936.57
40-50	1682.11
50-60	1289.61
60-70	885.50
70-80	500.61
80-90	196.27
90-100	78.58
100-110	55.70
110-120	40.52
120-130	25.32
130-140	12.80
140-150	4.20
150-160	0.55
160-170	0.13
170-180	0.06

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

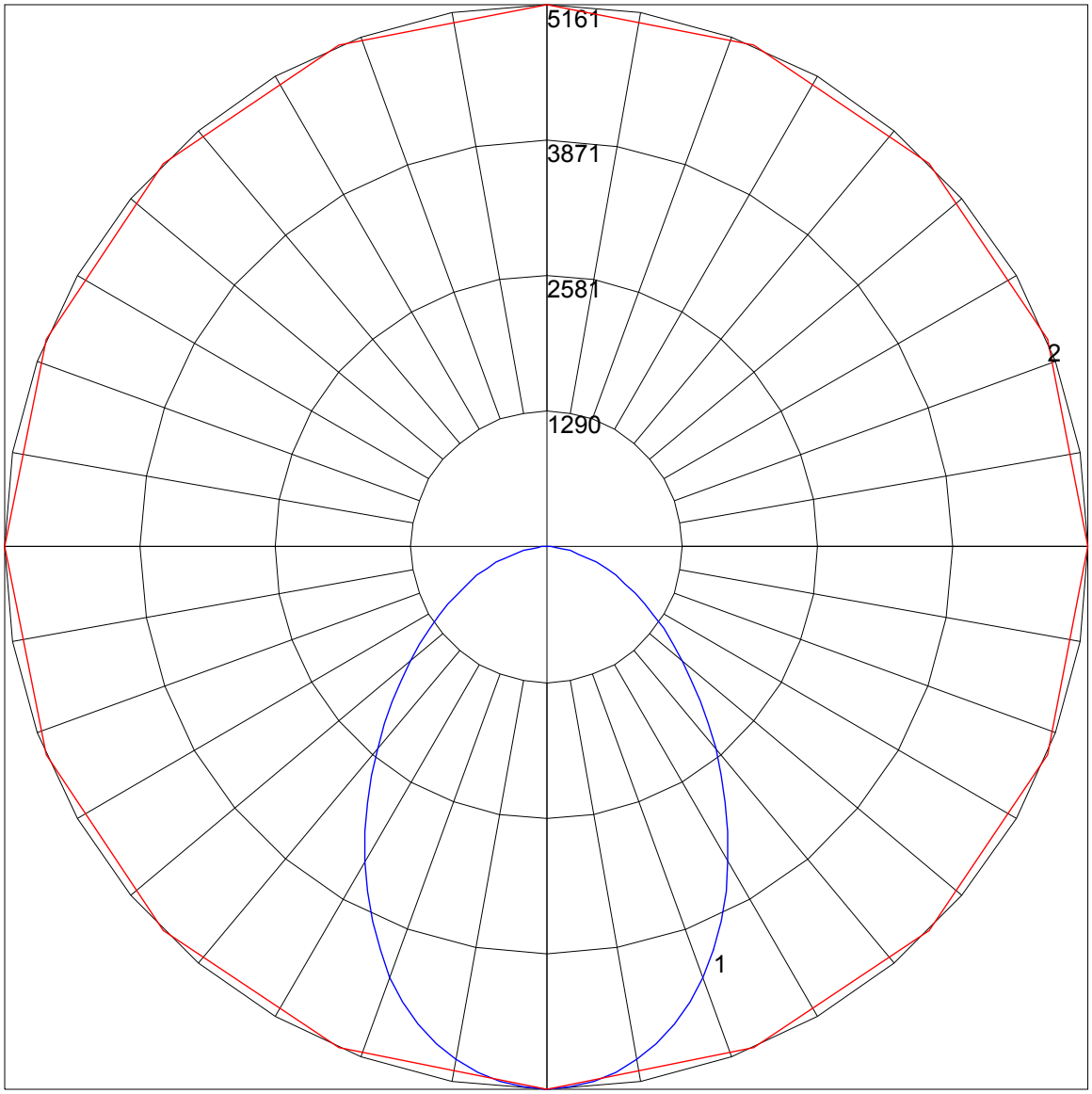
Effective Floor Cavity Reflectance 0.20

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	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92	94	91	89	90	88	86	84
2	100	93	87	81	98	91	85	80	87	82	78	84	80	76	80	77	74	72
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	72	68	64	62
4	85	74	66	60	83	73	65	60	70	64	59	68	62	58	65	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	54	50	48
6	73	61	53	47	72	60	52	47	58	51	46	56	50	45	55	49	45	43
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	50	45	41	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	48	40	35	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	57	44	37	32	55	44	36	32	42	36	31	41	35	31	40	35	31	29

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Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APX12LL40-UNV-M-LFA.IES

POLAR GRAPH



Maximum Candela = 5161.18 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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