

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284415

Luminaire Tested: **24FP3835HE**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P284415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24FP3835HE  
Description: 2x4 30W 3500K HE 80CRI

Light Source: -  
Ballast/Driver: -

**Summary**

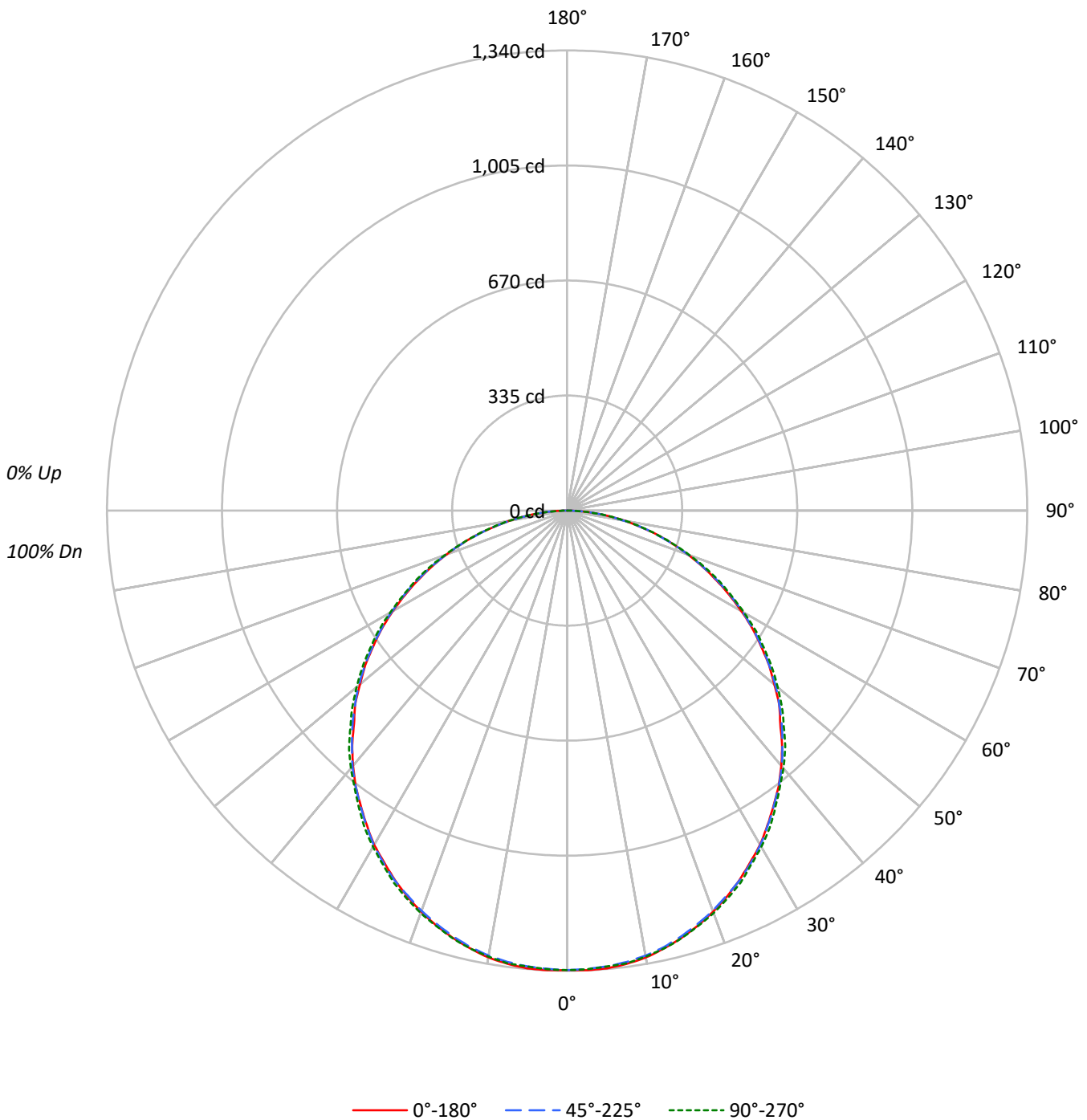
Lumens per Lamp: N/A  
Luminaire Lumens: 3848.9 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1801	1801	1801
5°	1807	1800	1800
10°	1805	1798	1802
15°	1794	1788	1796
20°	1780	1776	1786
25°	1762	1764	1775
30°	1746	1748	1757
35°	1722	1724	1736
40°	1703	1708	1720
45°	1669	1682	1698
50°	1648	1657	1675
55°	1617	1624	1643
60°	1576	1587	1602
65°	1526	1539	1562
70°	1472	1477	1494
75°	1413	1398	1413
80°	1314	1292	1336
85°	1147	1169	1147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	3.3
10°-20°	362.7	9.4
20°-30°	547.8	14.2
30°-40°	658.7	17.1
40°-50°	683.2	17.8
50°-60°	620.3	16.1
60°-70°	478.5	12.4
70°-80°	285.8	7.4
80°-90°	85.0	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1037.3	27.0
0°-40°	1696.0	44.1
0°-60°	2999.5	77.9
0°-90°	3848.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1338	1334	1333	1333	1333	127
15°	1288	1286	1284	1285	1289	363
25°	1187	1187	1188	1190	1195	547
35°	1048	1052	1050	1052	1057	657
45°	877	883	884	888	893	680
55°	689	692	692	696	701	617
65°	479	482	483	486	490	475
75°	272	269	269	270	272	286
85°	74	76	76	74	74	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1338.2	1338.2	1338.2	1338.2	1338.2
2.5°	1339.6	1339.6	1335.4	1336.8	1336.8
5°	1338.2	1334.0	1332.6	1332.6	1332.6
7.5°	1331.2	1327.0	1325.6	1327.0	1329.8
10°	1321.4	1315.8	1315.8	1315.8	1318.6
12.5°	1306.0	1303.2	1301.8	1300.4	1306.0
15°	1287.8	1286.4	1283.6	1285.0	1289.2
17.5°	1266.8	1264.0	1262.6	1266.8	1268.2
20°	1242.9	1240.1	1240.1	1244.3	1247.1
22.5°	1216.3	1216.3	1213.5	1217.7	1221.9
25°	1186.9	1186.9	1188.3	1189.7	1195.3
27.5°	1154.7	1156.1	1157.5	1160.3	1161.7
30°	1123.8	1122.4	1125.2	1128.0	1130.8
32.5°	1086.0	1088.8	1087.4	1094.4	1097.2
35°	1048.2	1052.4	1049.6	1052.4	1056.6
37.5°	1011.7	1013.1	1011.7	1017.3	1017.3
40°	969.7	969.7	972.5	976.7	979.5
42.5°	926.3	927.7	927.7	933.3	940.3
45°	877.2	882.8	884.2	888.4	892.6
47.5°	838.0	836.6	838.0	842.2	849.2
50°	787.5	790.3	791.7	795.9	800.1
52.5°	741.3	742.7	742.7	746.9	752.5
55°	689.4	692.2	692.2	696.4	700.6
57.5°	640.4	639.0	641.8	646.0	651.6
60°	585.7	585.7	589.9	592.7	595.5
62.5°	532.5	533.9	536.7	540.9	540.9
65°	479.2	482.0	483.4	486.2	490.5
67.5°	426.0	427.4	428.8	431.6	435.8
70°	374.1	374.1	375.5	378.3	379.7
72.5°	322.3	320.9	320.9	326.5	325.1
75°	271.8	269.0	269.0	270.4	271.8
77.5°	217.2	215.8	218.6	220.0	220.0
80°	169.6	168.2	166.8	168.2	172.4
82.5°	120.5	120.5	119.1	120.5	120.5
85°	74.3	75.7	75.7	74.3	74.3
87.5°	35.0	33.6	33.6	32.2	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)