

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: P183824

Luminaire Tested: **24SR-LD2-45-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183824  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-45-S-UNV-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

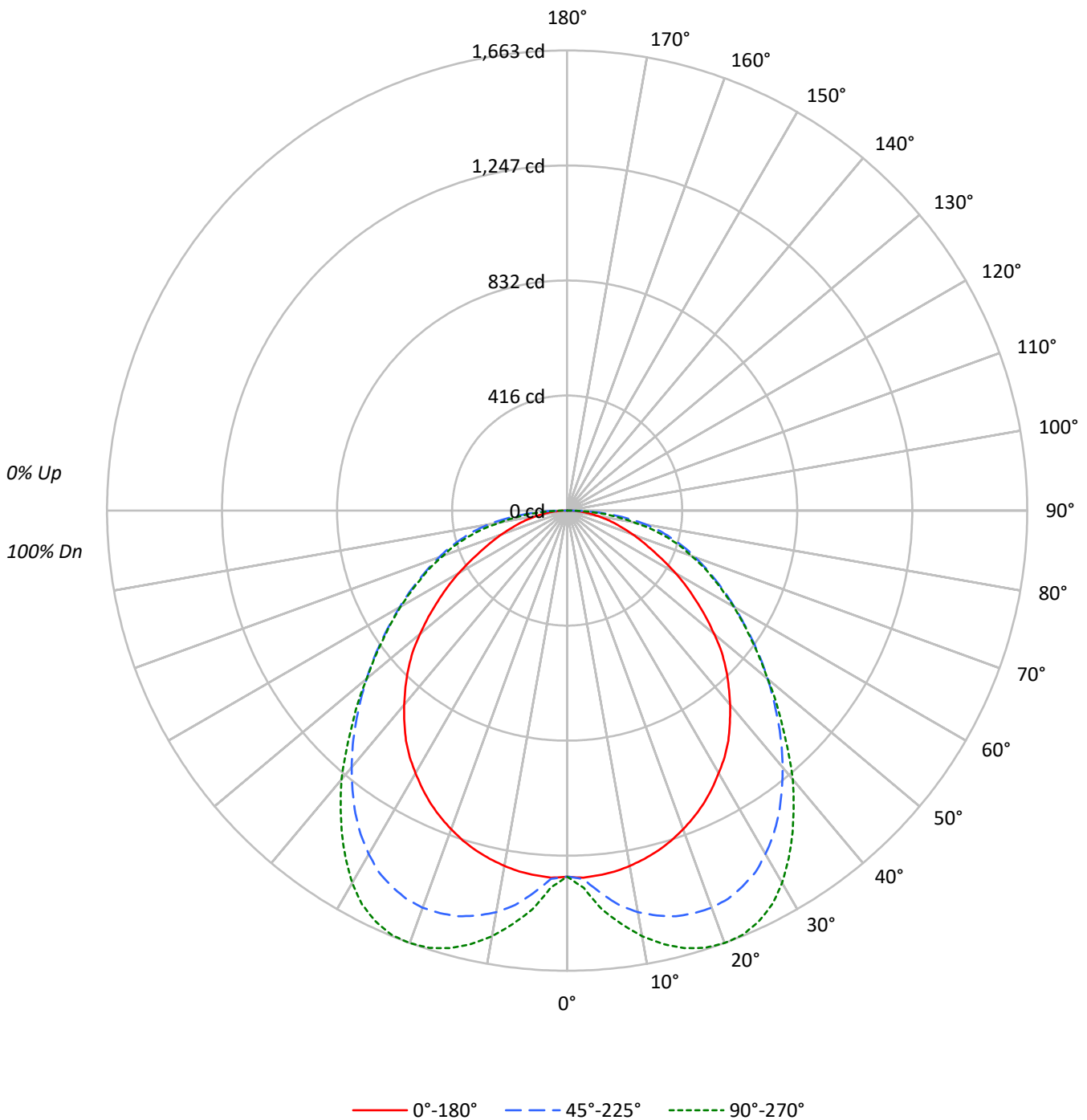
Lumens per Lamp: N/A  
Luminaire Lumens: 4554.6 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	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	25	24

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

	0°	45°	90°
0°	1780	1780	1780
5°	1786	1873	1954
10°	1782	2013	2134
15°	1772	2114	2280
20°	1754	2187	2382
25°	1734	2226	2432
30°	1702	2227	2414
35°	1668	2192	2333
40°	1610	2128	2229
45°	1546	2052	2092
50°	1451	1980	1980
55°	1335	1918	1905
60°	1215	1880	1870
65°	1081	1880	1855
70°	993	1934	1876
75°	924	2049	1945
80°	869	2236	1894
85°	846	2413	1981



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	3.0
10°-20°	423.3	9.3
20°-30°	674.1	14.8
30°-40°	803.8	17.6
40°-50°	791.9	17.4
50°-60°	683.9	15.0
60°-70°	533.7	11.7
70°-80°	365.7	8.0
80°-90°	143.5	3.2
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°	1232.1	27.1
0°-40°	2035.9	44.7
0°-60°	3511.6	77.1
0°-90°	4554.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4554.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1323	1347	1387	1439	1447	126
15°	1272	1407	1518	1613	1637	359
25°	1168	1352	1499	1613	1638	537
35°	1015	1188	1335	1411	1420	633
45°	812	961	1078	1109	1100	625
55°	569	722	818	820	812	511
65°	339	508	591	588	582	341
75°	178	345	394	378	374	189
85°	55	166	156	134	128	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1328.1	1329.4	1332.1	1358.8	1364.2
5°	1322.7	1346.8	1386.9	1439.0	1447.0
7.5°	1316.1	1369.5	1437.6	1493.8	1507.1
10°	1304.0	1392.2	1473.7	1544.5	1561.9
12.5°	1289.3	1404.2	1499.1	1581.9	1604.7
15°	1272.0	1406.9	1517.8	1612.7	1636.7
17.5°	1250.6	1402.9	1525.8	1630.0	1656.8
20°	1225.2	1392.2	1527.2	1636.7	1663.4
22.5°	1198.5	1376.2	1519.1	1631.4	1659.4
25°	1167.8	1352.1	1499.1	1612.7	1638.1
27.5°	1133.0	1318.7	1473.7	1580.6	1604.7
30°	1095.6	1280.0	1433.6	1533.8	1553.9
32.5°	1058.2	1237.2	1388.2	1477.7	1489.8
35°	1015.4	1187.8	1334.8	1410.9	1420.3
37.5°	966.0	1138.4	1274.6	1341.4	1344.1
40°	916.6	1078.2	1211.8	1261.3	1269.3
42.5°	864.5	1019.4	1146.4	1187.8	1182.4
45°	812.3	960.7	1078.2	1109.0	1099.6
47.5°	757.6	900.5	1011.4	1031.5	1024.8
50°	693.4	840.4	946.0	956.6	946.0
52.5°	632.0	783.0	881.8	887.2	877.8
55°	569.2	721.5	817.7	820.4	812.3
57.5°	511.7	664.0	756.2	756.2	752.2
60°	451.6	606.6	698.8	696.1	694.8
62.5°	394.1	555.8	645.3	641.3	637.3
65°	339.4	507.7	590.6	587.9	582.5
67.5°	293.9	462.3	539.8	535.8	533.1
70°	252.5	422.2	491.7	481.0	477.0
72.5°	212.4	382.1	444.9	428.9	430.2
75°	177.7	344.7	394.1	378.1	374.1
77.5°	143.0	306.0	344.7	319.3	314.0
80°	112.2	264.5	288.6	256.5	244.5
82.5°	82.8	219.1	224.5	193.7	185.7
85°	54.8	165.7	156.3	133.6	128.3
87.5°	29.4	97.5	84.2	68.1	64.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)