Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P183840

Luminaire Tested: **24SR-LD2-59-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-79-08
Report Number:	P183840
	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-LD2-59-S-UNV-L850-CD1-U
Description:	METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER
Light Source:	EATON LED 5000K
Ballast/Driver:	OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6499.9 lumens
Efficiency:	N/A
Efficacy:	129.5 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):	50.2
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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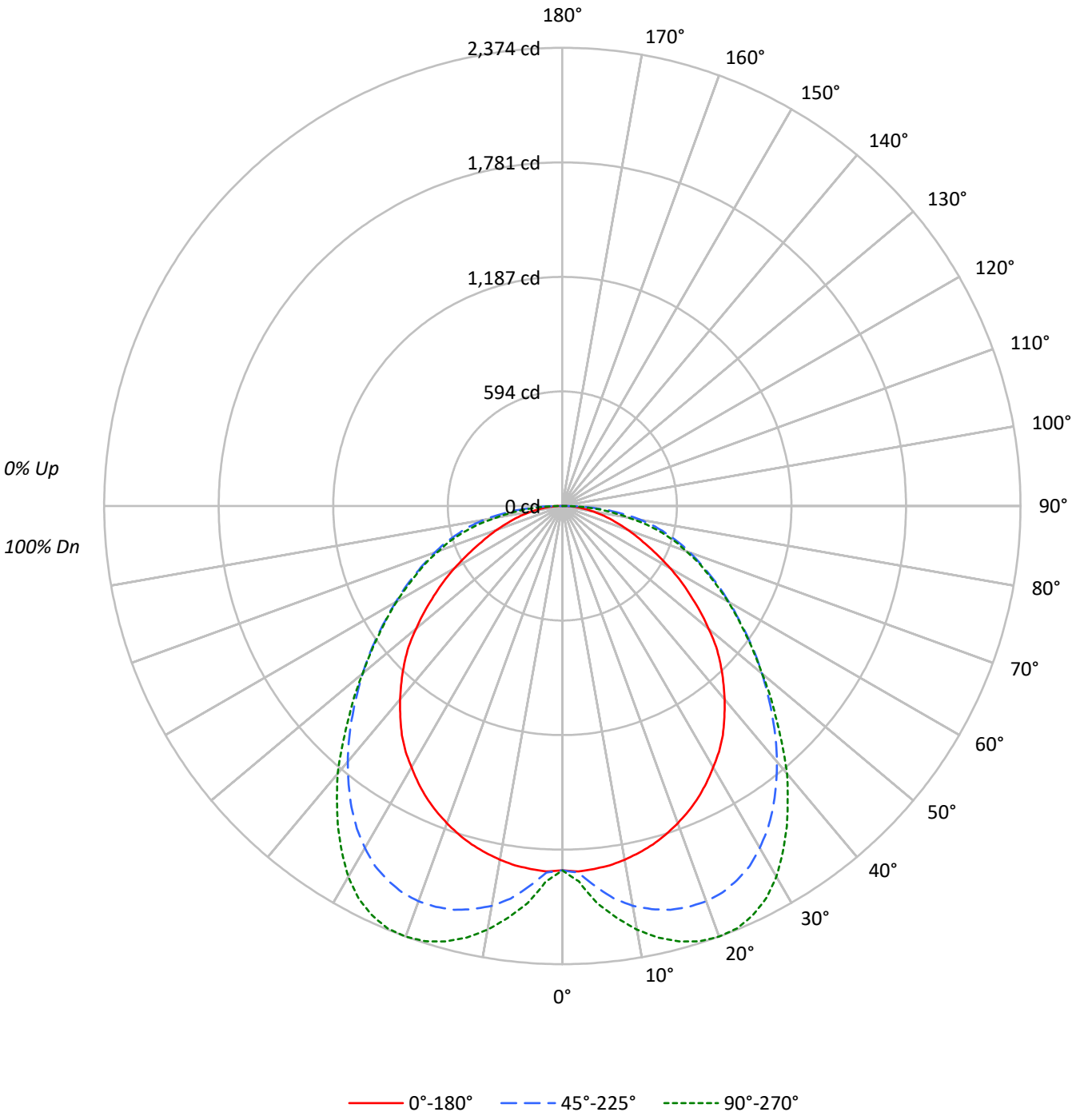
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	2540	2540	2540
5°	2550	2673	2789
10°	2543	2873	3045
15°	2528	3017	3254
20°	2504	3121	3399
25°	2474	3176	3471
30°	2429	3179	3445
35°	2380	3129	3329
40°	2297	3038	3182
45°	2206	2928	2986
50°	2071	2826	2826
55°	1905	2737	2719
60°	1734	2683	2668
65°	1542	2683	2647
70°	1418	2760	2678
75°	1318	2924	2776
80°	1241	3192	2703
85°	1207	3444	2825

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	3.0
10°-20°	604.0	9.3
20°-30°	962.0	14.8
30°-40°	1147.2	17.6
40°-50°	1130.1	17.4
50°-60°	976.0	15.0
60°-70°	761.7	11.7
70°-80°	521.9	8.0
80°-90°	204.8	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°	1758.3	27.1
0°-40°	2905.5	44.7
0°-60°	5011.5	77.1
0°-90°	6499.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6499.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1888	1922	1979	2054	2065	179
15°	1815	2008	2166	2302	2336	512
25°	1666	1930	2139	2302	2338	767
35°	1449	1695	1905	2014	2027	904
45°	1159	1371	1539	1583	1569	892
55°	812	1030	1167	1171	1159	729
65°	484	725	843	839	831	487
75°	254	492	562	540	534	269
85°	78	236	223	191	183	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.7	1887.7	1887.7	1887.7	*1887.7*
2.5°	1895.3	1897.2	1901.0	1939.2	*1946.8*
5°	1887.7	1922.0	1979.2	2053.6	*2065.0*
7.5°	1878.2	1954.4	2051.7	2131.8	*2150.8*
10°	1861.0	1986.8	2103.2	2204.2	*2229.0*
12.5°	1840.0	2004.0	2139.4	2257.6	*2290.0*
15°	1815.2	2007.8	2166.1	2301.5	*2335.8*
17.5°	1784.7	2002.1	2177.5	2326.2	*2364.4*
20°	*1748.5*	*1986.8*	*2179.4*	*2335.8*	*2373.9*
22.5°	1710.4	1964.0	2168.0	2328.1	*2368.2*
25°	1666.5	1929.6	2139.4	2301.5	*2337.7*
27.5°	1616.9	1882.0	2103.2	2255.7	*2290.0*
30°	1563.5	1826.7	2045.9	2189.0	*2217.6*
32.5°	1510.1	1765.7	1981.1	2108.9	*2126.0*
35°	1449.1	1695.1	1904.8	2013.5	*2026.9*
37.5°	1378.6	1624.6	1819.0	1914.4	*1918.2*
40°	1308.0	1538.8	1729.4	1800.0	*1811.4*
42.5°	1233.7	1454.9	1636.0	1695.1	*1687.5*
45°	1159.3	1371.0	1538.8	1582.6	*1569.3*
47.5°	1081.1	1285.2	1443.4	1472.0	*1462.5*
50°	989.6	1199.3	1350.0	1365.2	*1350.0*
52.5°	901.9	1117.4	1258.5	1266.1	*1252.7*
55°	812.3	1029.6	1166.9	1170.7	*1159.3*
57.5°	730.3	947.7	1079.2	1079.2	*1073.5*
60°	644.5	865.7	997.2	993.4	*991.5*
62.5°	562.5	793.2	921.0	915.2	*909.5*
65°	484.3	724.6	842.8	839.0	*831.3*
67.5°	419.5	659.7	770.3	764.6	*760.8*
70°	360.4	602.5	701.7	686.4	*680.7*
72.5°	303.2	545.3	634.9	612.1	*614.0*
75°	253.6	491.9	562.5	539.6	*533.9*
77.5°	204.0	436.6	491.9	455.7	*448.1*
80°	160.2	377.5	411.9	366.1	*348.9*
82.5°	118.2	312.7	320.3	276.5	*265.0*
85°	78.2	236.4	223.1	190.7	*183.0*
87.5°	41.9	139.2	120.1	97.2	*91.5*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)