

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: P183839

Luminaire Tested: **24SR-LD2-59-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183839
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-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: 5972.9 lumens
Efficiency: N/A
Efficacy: 119.0 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

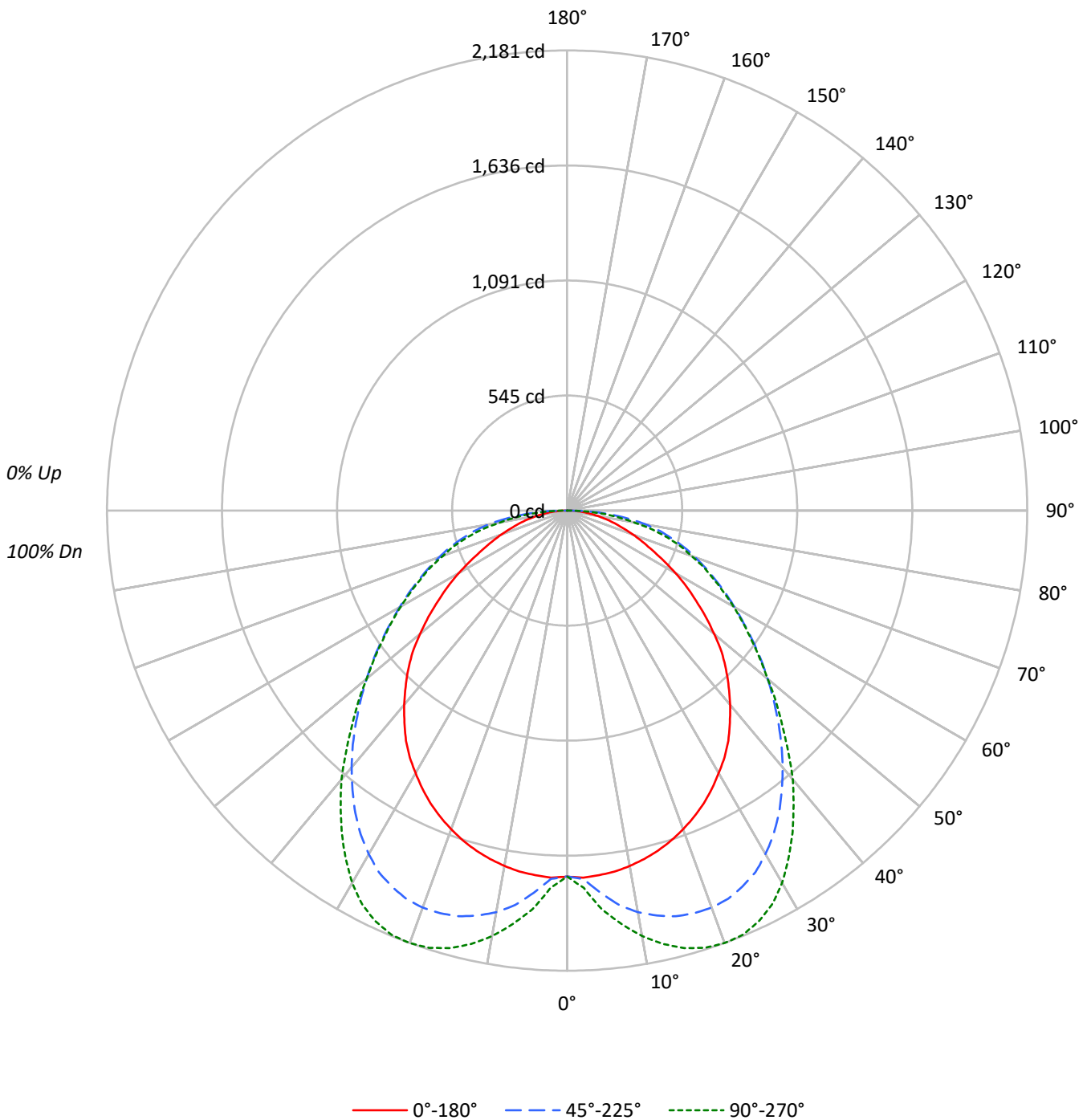
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
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°	2334	2334	2334
5°	2343	2456	2563
10°	2336	2640	2798
15°	2323	2773	2990
20°	2301	2868	3123
25°	2273	2919	3189
30°	2232	2921	3166
35°	2187	2875	3059
40°	2111	2791	2924
45°	2027	2691	2744
50°	1904	2597	2597
55°	1751	2515	2499
60°	1594	2466	2452
65°	1417	2466	2432
70°	1303	2537	2461
75°	1211	2687	2550
80°	1141	2933	2484
85°	1108	3165	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.0
10°-20°	555.1	9.3
20°-30°	884.0	14.8
30°-40°	1054.2	17.6
40°-50°	1038.5	17.4
50°-60°	896.8	15.0
60°-70°	699.9	11.7
70°-80°	479.6	8.0
80°-90°	188.2	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°	1615.7	27.1
0°-40°	2669.9	44.7
0°-60°	4605.2	77.1
0°-90°	5972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5972.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1735	1766	1819	1887	1898	165
15°	1668	1845	1990	2115	2146	470
25°	1531	1773	1966	2115	2148	705
35°	1332	1558	1750	1850	1862	830
45°	1065	1260	1414	1454	1442	819
55°	746	946	1072	1076	1065	670
65°	445	666	774	771	764	447
75°	233	452	517	496	491	247
85°	72	217	205	175	168	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.6	1734.6	1734.6	1734.6	1734.6
2.5°	1741.6	1743.4	1746.9	1781.9	1788.9
5°	1734.6	1766.2	1818.7	1887.1	1897.6
7.5°	1725.9	1796.0	1885.3	1958.9	1976.4
10°	1710.1	1825.7	1932.6	2025.5	2048.3
12.5°	1690.8	1841.5	1965.9	2074.5	2104.3
15°	1668.0	1845.0	1990.4	2114.8	2146.4
17.5°	1640.0	1839.8	2001.0	2137.6	2172.7
20°	1606.7	1825.7	2002.7	2146.4	2181.4
22.5°	1571.7	1804.7	1992.2	2139.4	2176.2
25°	1531.4	1773.2	1965.9	2114.8	2148.1
27.5°	1485.8	1729.4	1932.6	2072.8	2104.3
30°	1436.8	1678.6	1880.1	2011.5	2037.8
32.5°	1387.7	1622.5	1820.5	1937.9	1953.7
35°	1331.6	1557.7	1750.4	1850.3	1862.5
37.5°	1266.8	1492.8	1671.6	1759.2	1762.7
40°	1202.0	1414.0	1589.2	1654.0	1664.5
42.5°	1133.6	1336.9	1503.3	1557.7	1550.7
45°	1065.3	1259.8	1414.0	1454.3	1442.0
47.5°	993.5	1181.0	1326.4	1352.7	1343.9
50°	909.4	1102.1	1240.5	1254.5	1240.5
52.5°	828.8	1026.8	1156.4	1163.4	1151.2
55°	746.4	946.2	1072.3	1075.8	1065.3
57.5°	671.1	870.8	991.7	991.7	986.5
60°	592.2	795.5	916.4	912.9	911.1
62.5°	516.9	728.9	846.3	841.0	835.8
65°	445.0	665.8	774.5	770.9	763.9
67.5°	385.5	606.2	707.9	702.6	699.1
70°	331.2	553.7	644.8	630.8	625.5
72.5°	278.6	501.1	583.5	562.4	564.2
75°	233.0	452.1	516.9	495.9	490.6
77.5°	187.5	401.2	452.1	418.8	411.8
80°	147.2	346.9	378.5	336.4	320.6
82.5°	108.6	287.4	294.4	254.1	243.5
85°	71.8	217.3	205.0	175.2	168.2
87.5°	38.5	127.9	110.4	89.4	84.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)