

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: P183784

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-45-C-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: 4602.2 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

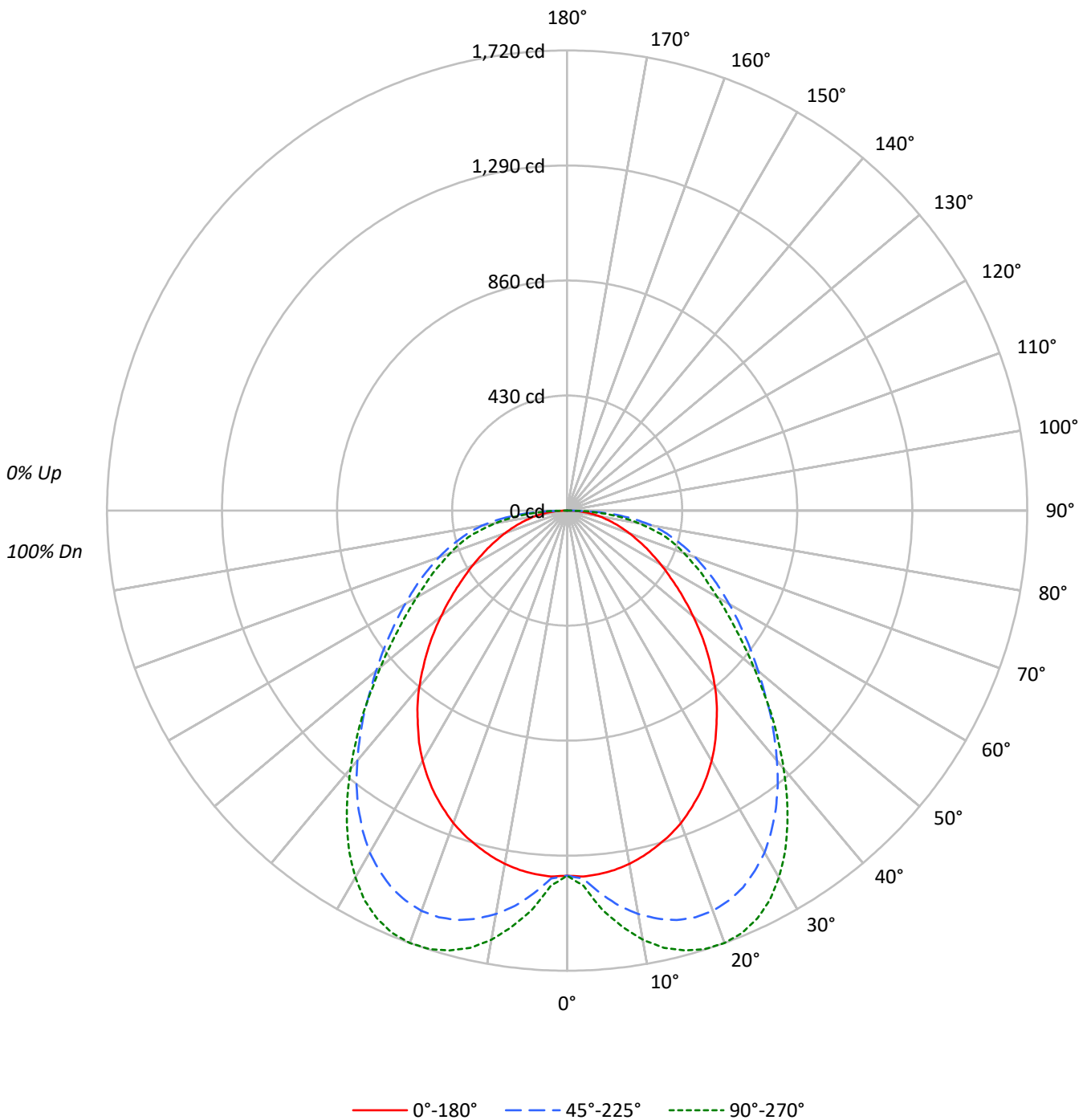
Input Watts (W): 36.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
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	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	1836	1836	1836
5°	1843	1940	2021
10°	1832	2092	2225
15°	1808	2207	2371
20°	1780	2280	2462
25°	1736	2308	2497
30°	1678	2293	2459
35°	1598	2233	2357
40°	1510	2142	2211
45°	1403	2043	2058
50°	1286	1951	1905
55°	1180	1895	1799
60°	1091	1882	1747
65°	1021	1917	1762
70°	971	2004	1830
75°	940	2174	1986
80°	950	2497	2095
85°	994	2912	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	3.0
10°-20°	439.0	9.5
20°-30°	692.9	15.1
30°-40°	812.1	17.6
40°-50°	776.9	16.9
50°-60°	662.0	14.4
60°-70°	531.2	11.5
70°-80°	384.5	8.4
80°-90°	164.2	3.6
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°	1271.4	27.6
0°-40°	2083.5	45.3
0°-60°	3522.4	76.5
0°-90°	4602.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4602.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1364	1390	1437	1487	1496	129
15°	1298	1454	1584	1679	1702	366
25°	1169	1394	1554	1660	1682	538
35°	973	1212	1360	1432	1435	609
45°	737	952	1074	1088	1081	568
55°	503	717	808	786	767	452
65°	321	539	602	563	553	319
75°	181	382	418	385	382	192
85°	64	192	189	156	148	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.3	1364.3	1364.3	1364.3	1364.3
2.5°	1369.1	1370.6	1376.9	1403.6	1403.6
5°	1364.3	1389.5	1436.6	1486.9	1496.4
7.5°	1354.9	1411.5	1490.1	1554.5	1567.1
10°	1340.8	1435.1	1531.0	1609.5	1628.4
12.5°	1321.9	1449.2	1562.4	1652.0	1674.0
15°	1298.3	1453.9	1584.4	1678.7	1702.3
17.5°	1273.2	1452.4	1593.8	1694.4	1718.0
20°	1243.3	1439.8	1592.3	1697.6	1719.6
22.5°	1207.2	1422.5	1578.1	1685.0	1708.6
25°	1169.4	1394.2	1554.5	1659.8	1681.8
27.5°	1127.0	1361.2	1518.4	1620.5	1641.0
30°	1079.8	1318.8	1475.9	1567.1	1582.8
32.5°	1029.5	1268.5	1420.9	1504.2	1515.2
35°	973.0	1211.9	1359.6	1431.9	1435.1
37.5°	919.5	1150.6	1293.6	1351.8	1350.2
40°	859.8	1084.6	1219.7	1266.9	1259.0
42.5°	796.9	1018.5	1145.9	1178.9	1167.9
45°	737.2	952.5	1073.6	1087.7	1081.4
47.5°	675.9	886.5	998.1	1009.1	990.2
50°	614.6	826.8	932.1	927.4	910.1
52.5°	558.0	771.8	869.2	855.1	836.2
55°	503.0	716.7	807.9	785.9	767.0
57.5°	451.1	668.0	752.9	723.0	705.7
60°	405.5	620.9	699.5	664.9	649.2
62.5°	361.5	578.4	649.2	613.0	597.3
65°	320.7	539.1	602.0	562.7	553.3
67.5°	281.4	499.8	554.9	517.1	506.1
70°	246.8	459.0	509.3	471.5	465.3
72.5°	212.2	421.2	463.7	429.1	424.4
75°	180.8	382.0	418.1	385.1	382.0
77.5°	149.3	339.5	372.5	333.2	325.4
80°	122.6	297.1	322.2	276.6	270.4
82.5°	92.7	245.2	257.8	216.9	213.8
85°	64.4	191.8	188.6	155.6	147.8
87.5°	34.6	114.7	100.6	80.2	77.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)