

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: P263700

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4259.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

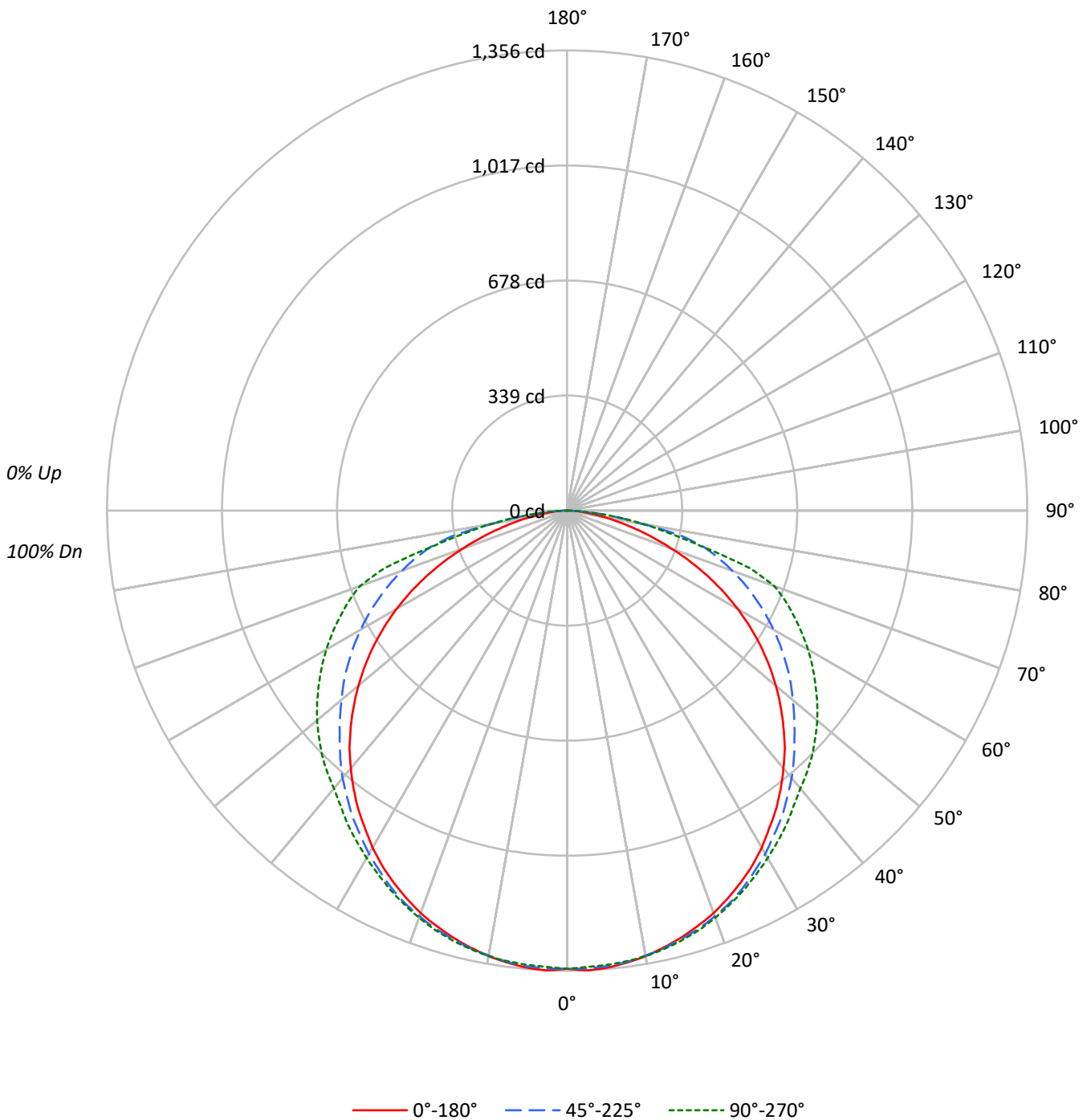
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1817	1817	1817
5°	1826	1821	1815
10°	1822	1819	1822
15°	1813	1819	1825
20°	1807	1822	1828
25°	1796	1821	1830
30°	1782	1814	1837
35°	1763	1811	1853
40°	1742	1808	1878
45°	1715	1803	1943
50°	1681	1817	2014
55°	1633	1849	2095
60°	1563	1890	2206
65°	1455	1949	2350
70°	1287	2037	2557
75°	1079	2180	2147
80°	861	1722	1787
85°	679	1166	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.0
10°-20°	368.5	8.7
20°-30°	562.9	13.2
30°-40°	688.2	16.2
40°-50°	736.6	17.3
50°-60°	706.6	16.6
60°-70°	596.6	14.0
70°-80°	381.3	9.0
80°-90°	90.2	2.1
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°	1059.5	24.9
0°-40°	1747.7	41.0
0°-60°	3190.9	74.9
0°-90°	4259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1352	1344	1348	1346	1344	128
15°	1302	1298	1306	1310	1310	368
25°	1210	1208	1226	1231	1233	558
35°	1073	1082	1103	1117	1128	671
45°	902	916	948	992	1021	695
55°	696	719	788	860	893	621
65°	457	501	612	698	738	451
75°	208	296	419	428	413	223
85°	44	73	76	73	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.1	1350.1	1350.1	1350.1	1350.1
2.5°	1356.4	1348.0	1350.1	1350.1	1345.9
5°	1352.2	1343.8	1348.0	1345.9	1343.8
7.5°	1343.8	1337.6	1341.8	1341.8	1339.7
10°	1333.4	1327.1	1331.3	1333.4	1333.4
12.5°	1318.7	1314.5	1320.8	1320.8	1322.9
15°	1301.9	1297.7	1306.1	1310.3	1310.3
17.5°	1283.1	1281.0	1291.4	1293.5	1295.6
20°	1262.1	1260.0	1272.6	1272.6	1276.8
22.5°	1236.9	1234.8	1251.6	1251.6	1255.8
25°	1209.7	1207.6	1226.4	1230.6	1232.7
27.5°	1180.3	1178.2	1197.1	1203.4	1207.6
30°	1146.8	1146.8	1167.7	1176.1	1182.4
32.5°	1109.0	1115.3	1134.2	1146.8	1155.2
35°	1073.4	1081.8	1102.8	1117.4	1127.9
37.5°	1033.6	1042.0	1065.0	1083.9	1096.5
40°	991.6	1002.1	1029.4	1050.3	1069.2
42.5°	949.7	960.2	989.5	1021.0	1046.1
45°	901.5	916.2	947.6	991.6	1021.0
47.5°	853.3	867.9	907.8	962.3	991.6
50°	803.0	819.7	867.9	930.8	962.3
52.5°	750.5	769.4	830.2	897.3	928.7
55°	696.0	719.1	788.3	859.6	893.1
57.5°	639.4	664.6	746.3	821.8	857.5
60°	580.7	612.2	702.3	782.0	819.7
62.5°	519.9	557.7	658.3	740.1	779.9
65°	457.0	501.1	612.2	698.1	738.0
67.5°	392.0	450.7	566.1	656.2	696.0
70°	327.1	396.2	517.8	610.1	649.9
72.5°	266.3	345.9	469.6	555.6	564.0
75°	207.6	295.6	419.3	427.7	413.0
77.5°	155.1	245.3	345.9	308.2	306.1
80°	111.1	197.1	222.2	228.5	230.6
82.5°	73.4	148.9	144.7	148.9	146.8
85°	44.0	73.4	75.5	73.4	69.2
87.5°	21.0	27.3	21.0	18.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)