

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: P263525

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263525
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-L83050-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: 4444.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

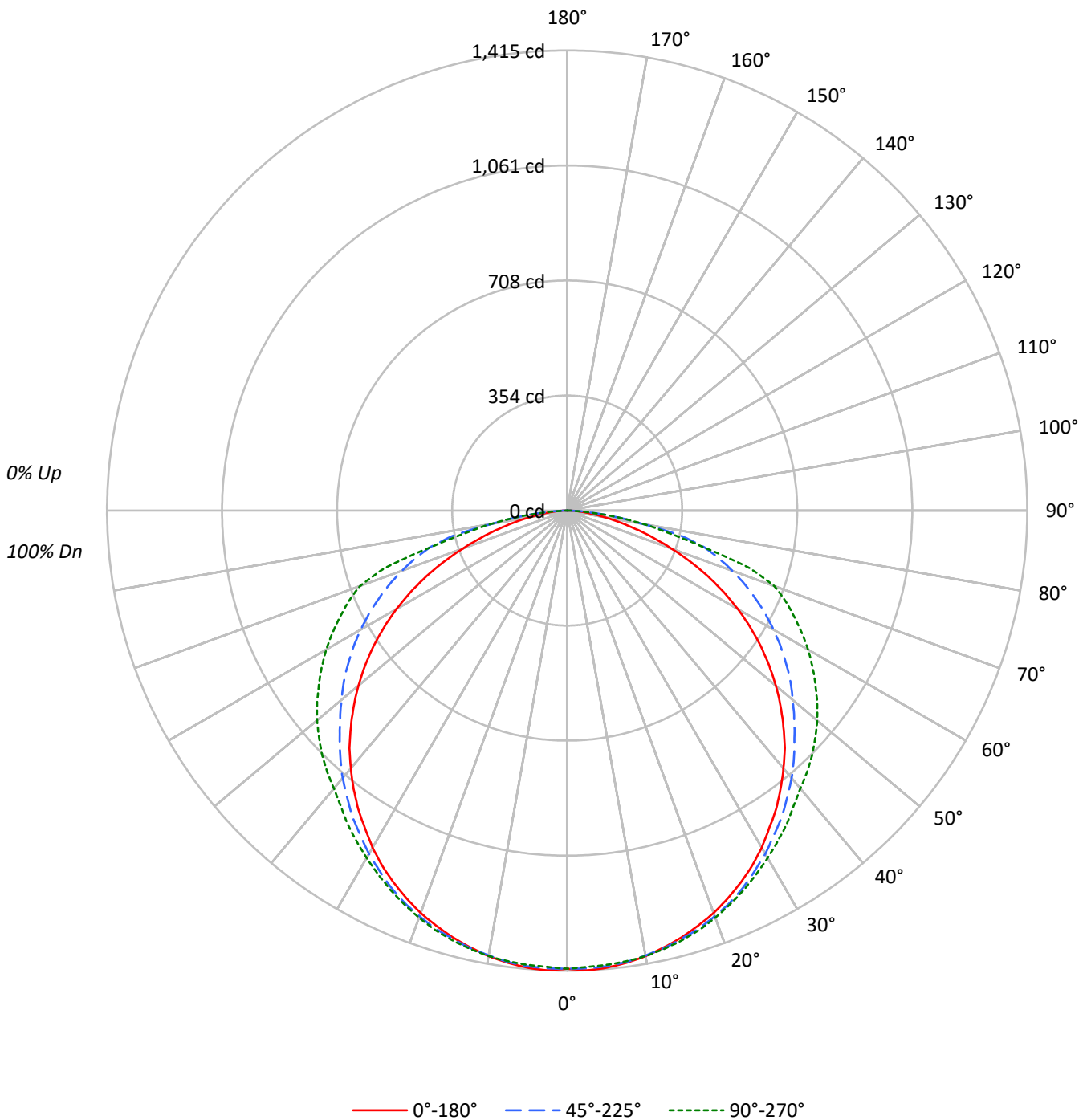
Input Watts (W): 46.437132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1896	1896	1896
5°	1906	1900	1894
10°	1901	1898	1901
15°	1892	1898	1904
20°	1886	1901	1907
25°	1874	1900	1910
30°	1859	1893	1917
35°	1840	1890	1933
40°	1817	1887	1960
45°	1790	1881	2027
50°	1754	1896	2102
55°	1704	1929	2186
60°	1631	1972	2302
65°	1518	2034	2451
70°	1343	2126	2668
75°	1126	2274	2240
80°	898	1797	1864
85°	709	1216	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.0
10°-20°	384.5	8.7
20°-30°	587.4	13.2
30°-40°	718.1	16.2
40°-50°	768.6	17.3
50°-60°	737.3	16.6
60°-70°	622.5	14.0
70°-80°	397.8	9.0
80°-90°	94.1	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°	1105.5	24.9
0°-40°	1823.6	41.0
0°-60°	3329.6	74.9
0°-90°	4444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1411	1402	1407	1404	1402	134
15°	1358	1354	1363	1367	1367	384
25°	1262	1260	1280	1284	1286	582
35°	1120	1129	1151	1166	1177	700
45°	941	956	989	1035	1065	726
55°	726	750	822	897	932	648
65°	477	523	639	728	770	470
75°	217	308	438	446	431	233
85°	46	77	79	77	72	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.8	1408.8	1408.8	1408.8	1408.8
2.5°	1415.3	1406.6	1408.8	1408.8	1404.4
5°	1411.0	1402.2	1406.6	1404.4	1402.2
7.5°	1402.2	1395.7	1400.0	1400.0	1397.8
10°	1391.3	1384.7	1389.1	1391.3	1391.3
12.5°	1376.0	1371.6	1378.2	1378.2	1380.3
15°	1358.5	1354.1	1362.8	1367.2	1367.2
17.5°	1338.8	1336.6	1347.5	1349.7	1351.9
20°	1316.9	1314.7	1327.8	1327.8	1332.2
22.5°	1290.7	1288.5	1306.0	1306.0	1310.3
25°	1262.2	1260.0	1279.7	1284.1	1286.3
27.5°	1231.6	1229.4	1249.1	1255.7	1260.0
30°	1196.6	1196.6	1218.5	1227.2	1233.8
32.5°	1157.2	1163.8	1183.5	1196.6	1205.3
35°	1120.0	1128.8	1150.7	1166.0	1176.9
37.5°	1078.5	1087.2	1111.3	1131.0	1144.1
40°	1034.7	1045.7	1074.1	1096.0	1115.7
42.5°	991.0	1001.9	1032.5	1065.3	1091.6
45°	940.6	956.0	988.8	1034.7	1065.3
47.5°	890.3	905.6	947.2	1004.1	1034.7
50°	837.8	855.3	905.6	971.3	1004.1
52.5°	783.1	802.8	866.3	936.3	969.1
55°	726.3	750.3	822.5	896.9	931.9
57.5°	667.2	693.5	778.8	857.5	894.7
60°	606.0	638.8	732.8	816.0	855.3
62.5°	542.5	581.9	686.9	772.2	813.8
65°	476.9	522.8	638.8	728.5	770.0
67.5°	409.1	470.3	590.6	684.7	726.3
70°	341.3	413.4	540.3	636.6	678.1
72.5°	277.8	360.9	490.0	579.7	588.5
75°	216.6	308.4	437.5	446.3	430.9
77.5°	161.9	255.9	360.9	321.6	319.4
80°	115.9	205.6	231.9	238.4	240.6
82.5°	76.6	155.3	150.9	155.3	153.1
85°	45.9	76.6	78.8	76.6	72.2
87.5°	21.9	28.4	21.9	19.7	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)