

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: P261374

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3622.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

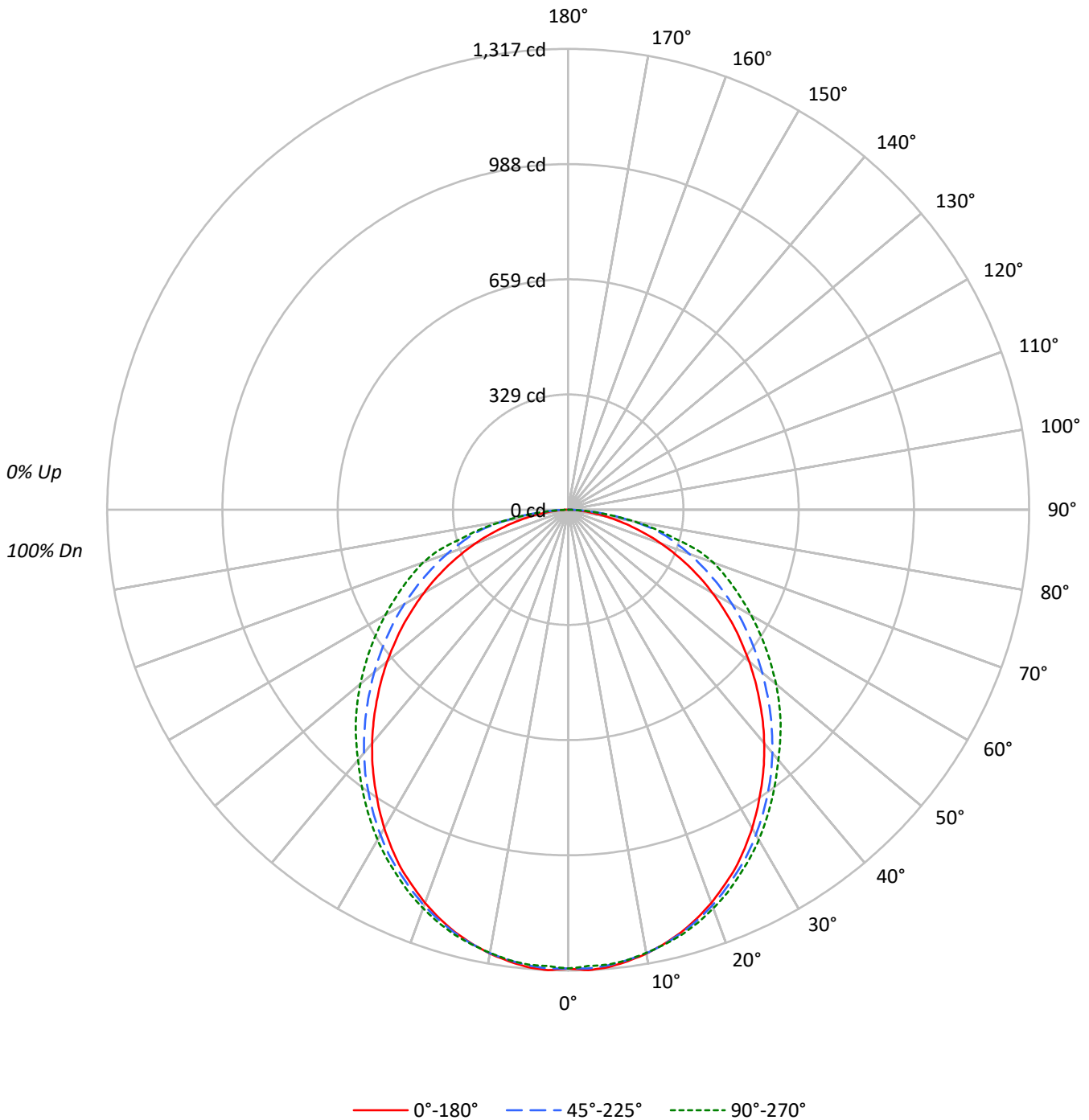
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1764	1764	1764
5°	1773	1766	1763
10°	1760	1758	1757
15°	1741	1744	1751
20°	1712	1724	1736
25°	1678	1696	1714
30°	1633	1666	1693
35°	1582	1631	1665
40°	1530	1594	1640
45°	1472	1553	1633
50°	1413	1514	1622
55°	1351	1481	1617
60°	1281	1456	1625
65°	1205	1439	1657
70°	1109	1446	1735
75°	984	1497	1616
80°	822	1420	1457
85°	614	1135	1042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.4
10°-20°	352.6	9.7
20°-30°	525.4	14.5
30°-40°	618.5	17.1
40°-50°	628.6	17.4
50°-60°	565.1	15.6
60°-70°	446.4	12.3
70°-80°	283.2	7.8
80°-90°	78.2	2.2
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°	1002.0	27.7
0°-40°	1620.5	44.7
0°-60°	2814.2	77.7
0°-90°	3622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1312	1302	1308	1305	1305	124
15°	1250	1244	1252	1256	1257	352
25°	1130	1129	1142	1150	1155	520
35°	963	969	993	1004	1014	602
45°	774	785	816	840	858	597
55°	576	590	632	672	689	514
65°	378	398	452	501	521	375
75°	189	222	288	313	311	201
85°	40	69	74	68	68	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1317.3	1307.6	1312.4	1310.0	1305.2
5°	1312.4	1301.6	1307.6	1305.2	1305.2
7.5°	1301.6	1293.2	1298.0	1296.8	1298.0
10°	1288.3	1279.9	1287.1	1287.1	1285.9
12.5°	1270.3	1263.0	1271.5	1271.5	1272.7
15°	1249.8	1243.7	1252.2	1255.8	1257.0
17.5°	1224.5	1218.4	1229.3	1232.9	1236.5
20°	1195.5	1193.1	1204.0	1207.6	1212.4
22.5°	1163.0	1163.0	1173.8	1178.7	1185.9
25°	1130.5	1129.2	1142.5	1149.7	1154.6
27.5°	1091.9	1093.1	1110.0	1117.2	1123.2
30°	1050.9	1053.3	1072.6	1081.0	1089.5
32.5°	1007.5	1012.3	1034.0	1043.7	1052.1
35°	962.9	969.0	993.1	1003.9	1013.6
37.5°	918.3	926.8	952.1	962.9	973.8
40°	871.3	878.6	907.5	920.8	934.0
42.5°	823.1	832.8	861.7	881.0	896.7
45°	773.7	784.6	815.9	840.0	858.1
47.5°	724.3	738.8	768.9	801.4	817.1
50°	674.9	689.4	723.1	759.3	774.9
52.5°	624.3	638.7	677.3	714.7	731.5
55°	576.1	590.5	631.5	672.5	689.4
57.5°	525.5	541.1	586.9	629.1	646.0
60°	476.0	491.7	541.1	585.7	603.8
62.5°	427.8	444.7	496.5	543.5	561.6
65°	378.4	397.7	451.9	501.4	520.6
67.5°	330.2	351.9	408.6	460.4	480.9
70°	282.0	307.3	367.6	420.6	441.1
72.5°	235.0	262.7	326.6	379.6	390.5
75°	189.2	221.8	288.0	313.3	310.9
77.5°	145.8	182.0	244.7	249.5	256.7
80°	106.1	145.8	183.2	192.8	188.0
82.5°	69.9	109.7	131.4	126.5	125.3
85°	39.8	68.7	73.5	67.5	67.5
87.5°	16.9	27.7	24.1	18.1	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)