

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: P263608

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263608
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-LD5-70-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4165.4 lumens
Efficiency: N/A
Efficacy: 76.2 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

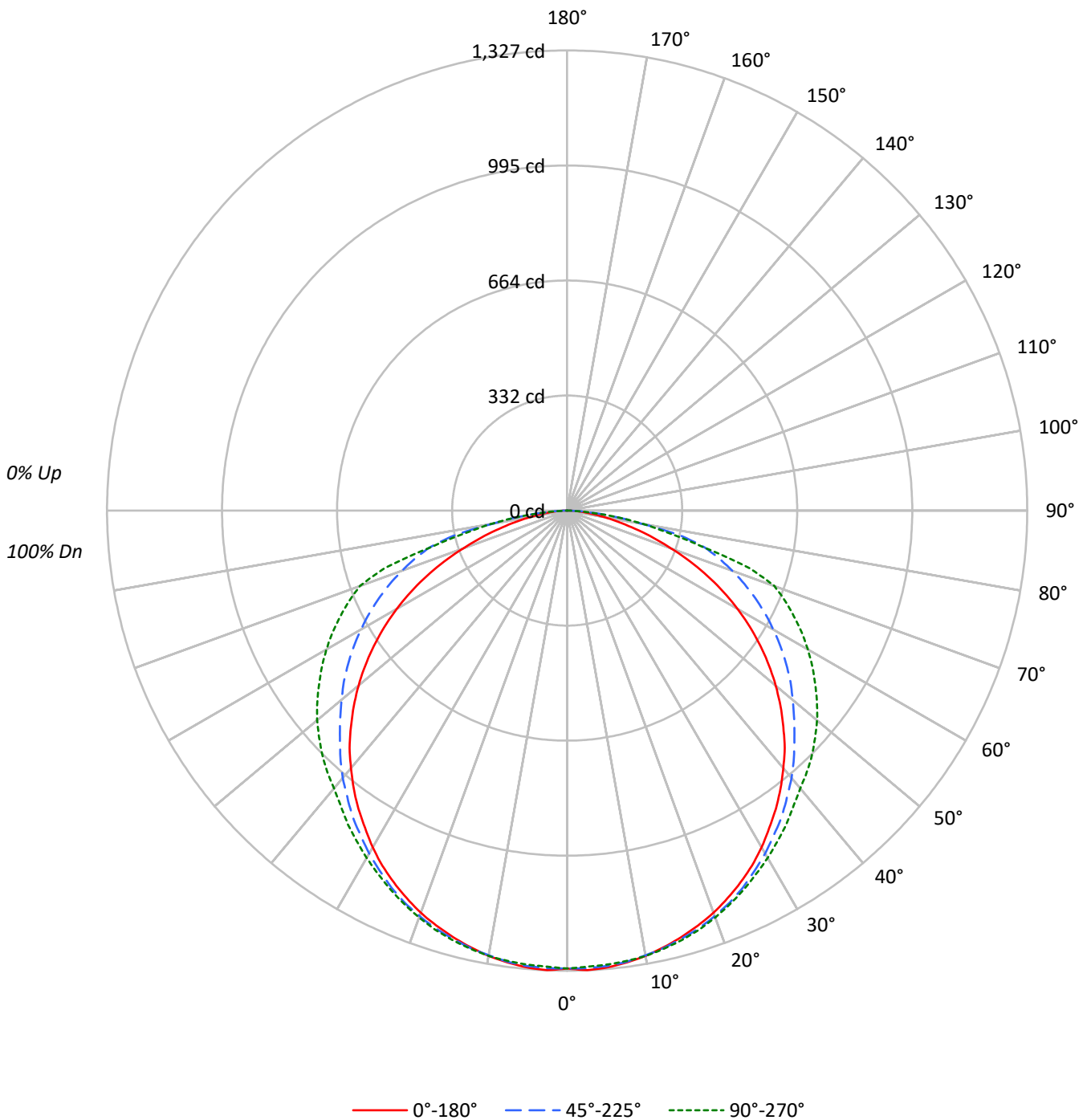
Input Watts (W): 54.680559
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1777	1777	1777
5°	1786	1781	1775
10°	1782	1779	1782
15°	1774	1779	1785
20°	1767	1782	1788
25°	1756	1781	1790
30°	1743	1774	1797
35°	1724	1771	1812
40°	1703	1768	1837
45°	1678	1764	1900
50°	1644	1777	1970
55°	1597	1809	2049
60°	1528	1848	2157
65°	1423	1906	2298
70°	1258	1992	2500
75°	1055	2132	2100
80°	842	1684	1747
85°	665	1139	1045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.0
10°-20°	360.4	8.7
20°-30°	550.5	13.2
30°-40°	673.1	16.2
40°-50°	720.4	17.3
50°-60°	691.1	16.6
60°-70°	583.5	14.0
70°-80°	372.9	9.0
80°-90°	88.2	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°	1036.2	24.9
0°-40°	1709.3	41.0
0°-60°	3120.8	74.9
0°-90°	4165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1322	1314	1318	1316	1314	126
15°	1273	1269	1277	1282	1282	359
25°	1183	1181	1200	1204	1206	545
35°	1050	1058	1078	1093	1103	656
45°	882	896	927	970	998	680
55°	681	703	771	841	874	607
65°	447	490	599	683	722	441
75°	203	289	410	418	404	219
85°	43	72	74	72	68	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.5	1320.5	1320.5	1320.5	1320.5
2.5°	1326.6	1318.4	1320.5	1320.5	1316.4
5°	1322.5	1314.3	1318.4	1316.4	1314.3
7.5°	1314.3	1308.2	1312.3	1312.3	1310.2
10°	1304.1	1297.9	1302.0	1304.1	1304.1
12.5°	1289.7	1285.6	1291.8	1291.8	1293.8
15°	1273.3	1269.2	1277.4	1281.5	1281.5
17.5°	1254.8	1252.8	1263.0	1265.1	1267.1
20°	1234.3	1232.3	1244.6	1244.6	1248.7
22.5°	1209.7	1207.7	1224.1	1224.1	1228.2
25°	1183.1	1181.0	1199.5	1203.6	1205.6
27.5°	1154.4	1152.3	1170.8	1176.9	1181.0
30°	1121.6	1121.6	1142.1	1150.3	1156.4
32.5°	1084.7	1090.8	1109.3	1121.6	1129.8
35°	1049.8	1058.0	1078.5	1092.9	1103.1
37.5°	1010.8	1019.1	1041.6	1060.1	1072.4
40°	969.8	980.1	1006.7	1027.3	1045.7
42.5°	928.8	939.1	967.8	998.5	1023.2
45°	881.7	896.0	926.8	969.8	998.5
47.5°	834.5	848.9	887.8	941.1	969.8
50°	785.3	801.7	848.9	910.4	941.1
52.5°	734.0	752.5	812.0	877.6	908.3
55°	680.7	703.3	771.0	840.7	873.5
57.5°	625.4	650.0	729.9	803.8	838.6
60°	568.0	598.7	686.9	764.8	801.7
62.5°	508.5	545.4	643.8	723.8	762.8
65°	447.0	490.0	598.7	682.8	721.7
67.5°	383.4	440.8	553.6	641.8	680.7
70°	319.9	387.5	506.4	596.7	635.6
72.5°	260.4	338.3	459.3	543.4	551.6
75°	203.0	289.1	410.1	418.3	403.9
77.5°	151.7	239.9	338.3	301.4	299.4
80°	108.7	192.7	217.3	223.5	225.5
82.5°	71.8	145.6	141.5	145.6	143.5
85°	43.1	71.8	73.8	71.8	67.7
87.5°	20.5	26.7	20.5	18.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)