

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: P263845

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263845
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-LD5-65-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 83.9 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

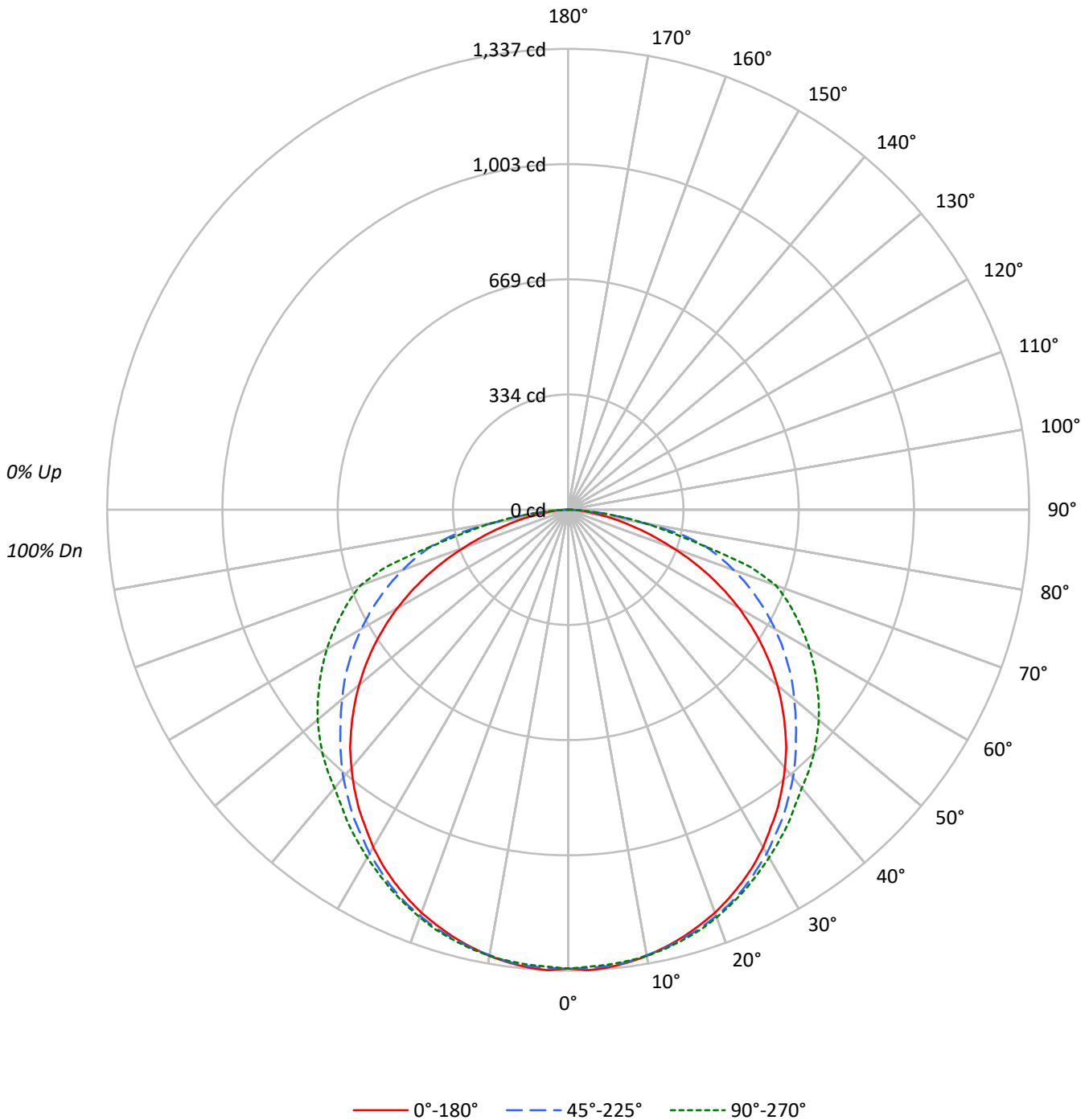
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1791	1791	1791
5°	1801	1795	1789
10°	1796	1793	1796
15°	1788	1794	1799
20°	1782	1796	1802
25°	1771	1795	1804
30°	1757	1789	1811
35°	1738	1786	1827
40°	1717	1783	1851
45°	1691	1778	1915
50°	1657	1791	1986
55°	1610	1823	2065
60°	1541	1863	2175
65°	1435	1922	2316
70°	1268	2008	2521
75°	1064	2149	2117
80°	848	1698	1762
85°	670	1149	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.0
10°-20°	363.3	8.7
20°-30°	555.0	13.2
30°-40°	678.5	16.2
40°-50°	726.3	17.3
50°-60°	696.6	16.6
60°-70°	588.2	14.0
70°-80°	375.9	9.0
80°-90°	88.9	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°	1044.6	24.9
0°-40°	1723.1	41.0
0°-60°	3146.0	74.9
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1333	1325	1329	1327	1325	127
15°	1284	1279	1288	1292	1292	362
25°	1193	1191	1209	1213	1215	550
35°	1058	1066	1087	1102	1112	662
45°	889	903	934	978	1007	686
55°	686	709	777	848	880	612
65°	451	494	604	688	728	444
75°	205	291	413	422	407	220
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°	1331.1	1331.1	1331.1	1331.1	1331.1
2.5°	1337.3	1329.1	1331.1	1331.1	1327.0
5°	1333.2	1324.9	1329.1	1327.0	1324.9
7.5°	1324.9	1318.7	1322.9	1322.9	1320.8
10°	1314.6	1308.4	1312.5	1314.6	1314.6
12.5°	1300.1	1296.0	1302.2	1302.2	1304.2
15°	1283.6	1279.4	1287.7	1291.8	1291.8
17.5°	1265.0	1262.9	1273.2	1275.3	1277.4
20°	1244.3	1242.2	1254.6	1254.6	1258.8
22.5°	1219.5	1217.4	1234.0	1234.0	1238.1
25°	1192.6	1190.6	1209.2	1213.3	1215.4
27.5°	1163.7	1161.6	1180.2	1186.4	1190.6
30°	1130.6	1130.6	1151.3	1159.6	1165.8
32.5°	1093.4	1099.6	1118.2	1130.6	1138.9
35°	1058.3	1066.5	1087.2	1101.7	1112.0
37.5°	1019.0	1027.3	1050.0	1068.6	1081.0
40°	977.7	988.0	1014.9	1035.5	1054.1
42.5°	936.3	946.7	975.6	1006.6	1031.4
45°	888.8	903.3	934.3	977.7	1006.6
47.5°	841.3	855.7	895.0	948.7	977.7
50°	791.6	808.2	855.7	917.7	948.7
52.5°	740.0	758.6	818.5	884.7	915.7
55°	686.2	709.0	777.2	847.5	880.5
57.5°	630.4	655.2	735.8	810.2	845.4
60°	572.5	603.6	692.4	771.0	808.2
62.5°	512.6	549.8	649.0	729.6	768.9
65°	450.6	494.0	603.6	688.3	727.6
67.5°	386.5	444.4	558.1	647.0	686.2
70°	322.4	390.7	510.5	601.5	640.8
72.5°	262.5	341.0	463.0	547.7	556.0
75°	204.6	291.4	413.4	421.7	407.2
77.5°	153.0	241.8	341.0	303.8	301.8
80°	109.5	194.3	219.1	225.3	227.4
82.5°	72.3	146.8	142.6	146.8	144.7
85°	43.4	72.3	74.4	72.3	68.2
87.5°	20.7	26.9	20.7	18.6	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)