

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: P263699

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263699
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4185.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

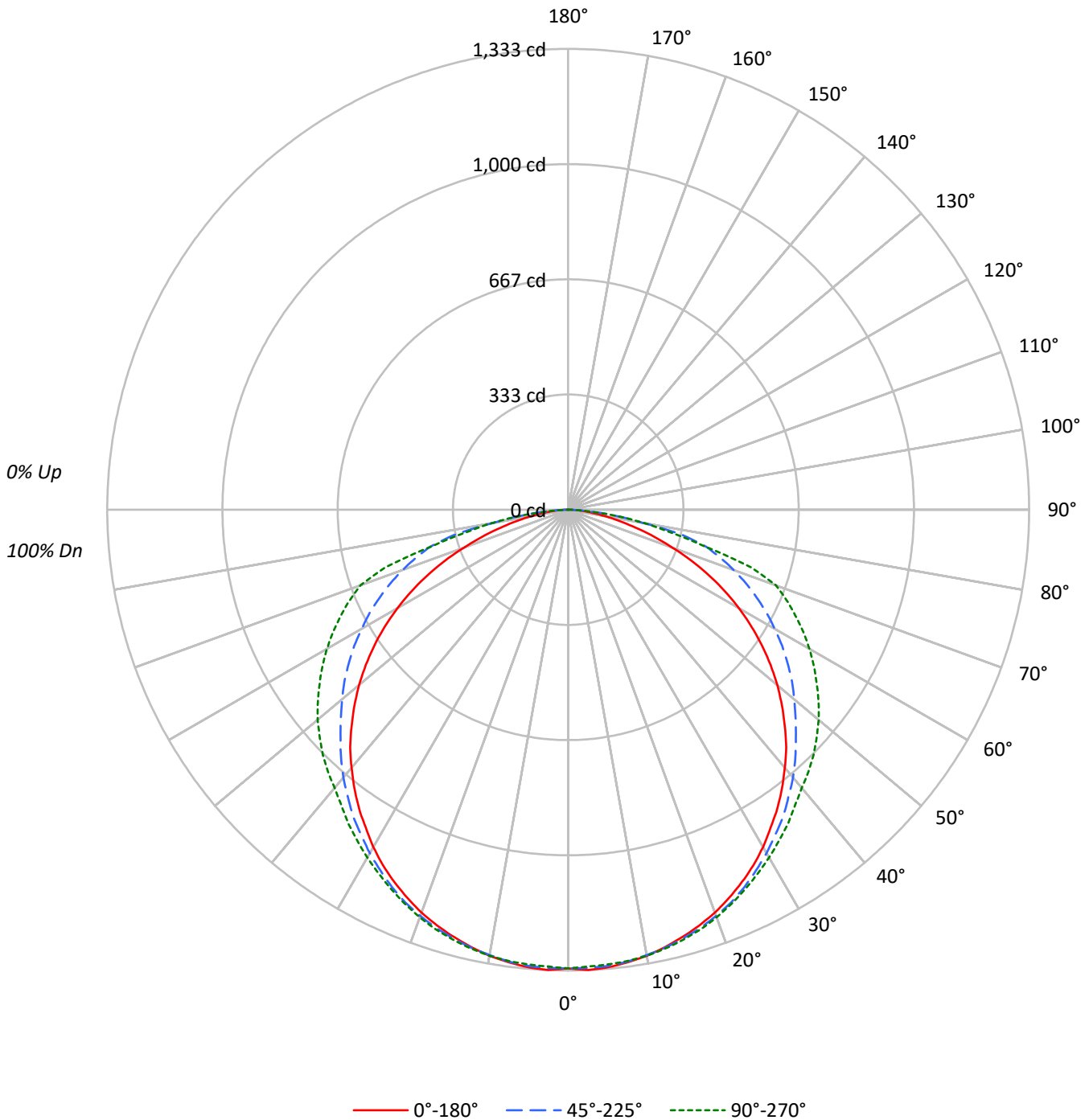
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1785	1785	1785
5°	1795	1789	1784
10°	1790	1787	1790
15°	1782	1788	1793
20°	1776	1791	1796
25°	1765	1789	1798
30°	1751	1783	1805
35°	1733	1780	1820
40°	1711	1777	1845
45°	1686	1772	1909
50°	1652	1785	1979
55°	1604	1817	2059
60°	1535	1857	2168
65°	1430	1915	2309
70°	1264	2002	2512
75°	1060	2142	2110
80°	846	1692	1756
85°	668	1145	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.0
10°-20°	362.1	8.7
20°-30°	553.1	13.2
30°-40°	676.3	16.2
40°-50°	723.8	17.3
50°-60°	694.3	16.6
60°-70°	586.2	14.0
70°-80°	374.7	9.0
80°-90°	88.6	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°	1041.1	24.9
0°-40°	1717.4	41.0
0°-60°	3135.5	74.9
0°-90°	4185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1329	1320	1325	1323	1320	126
15°	1279	1275	1283	1288	1288	361
25°	1189	1187	1205	1209	1211	548
35°	1055	1063	1084	1098	1108	659
45°	886	900	931	974	1003	683
55°	684	707	775	845	878	610
65°	449	492	602	686	725	443
75°	204	290	412	420	406	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°	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1332.9	1324.6	1326.7	1326.7	1322.6
5°	1328.7	1320.5	1324.6	1322.6	1320.5
7.5°	1320.5	1314.3	1318.4	1318.4	1316.4
10°	1310.2	1304.0	1308.1	1310.2	1310.2
12.5°	1295.8	1291.7	1297.8	1297.8	1299.9
15°	1279.3	1275.2	1283.4	1287.5	1287.5
17.5°	1260.8	1258.7	1269.0	1271.1	1273.1
20°	1240.2	1238.1	1250.5	1250.5	1254.6
22.5°	1215.4	1213.4	1229.9	1229.9	1234.0
25°	1188.7	1186.6	1205.1	1209.3	1211.3
27.5°	1159.8	1157.8	1176.3	1182.5	1186.6
30°	1126.9	1126.9	1147.5	1155.7	1161.9
32.5°	1089.8	1096.0	1114.5	1126.9	1135.1
35°	1054.8	1063.0	1083.6	1098.0	1108.3
37.5°	1015.6	1023.9	1046.5	1065.1	1077.4
40°	974.4	984.7	1011.5	1032.1	1050.6
42.5°	933.2	943.5	972.3	1003.3	1028.0
45°	885.8	900.2	931.1	974.4	1003.3
47.5°	838.4	852.9	892.0	945.6	974.4
50°	789.0	805.5	852.9	914.7	945.6
52.5°	737.5	756.0	815.8	881.7	912.6
55°	683.9	706.6	774.6	844.6	877.6
57.5°	628.3	653.0	733.4	807.5	842.6
60°	570.6	601.5	690.1	768.4	805.5
62.5°	510.9	548.0	646.9	727.2	766.3
65°	449.1	492.4	601.5	686.0	725.1
67.5°	385.2	442.9	556.2	644.8	683.9
70°	321.4	389.4	508.8	599.5	638.6
72.5°	261.6	339.9	461.5	545.9	554.2
75°	203.9	290.5	412.0	420.3	405.8
77.5°	152.4	241.0	339.9	302.8	300.8
80°	109.2	193.6	218.4	224.5	226.6
82.5°	72.1	146.3	142.1	146.3	144.2
85°	43.3	72.1	74.2	72.1	68.0
87.5°	20.6	26.8	20.6	18.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)