

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: P263523

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263523
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 94.7 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

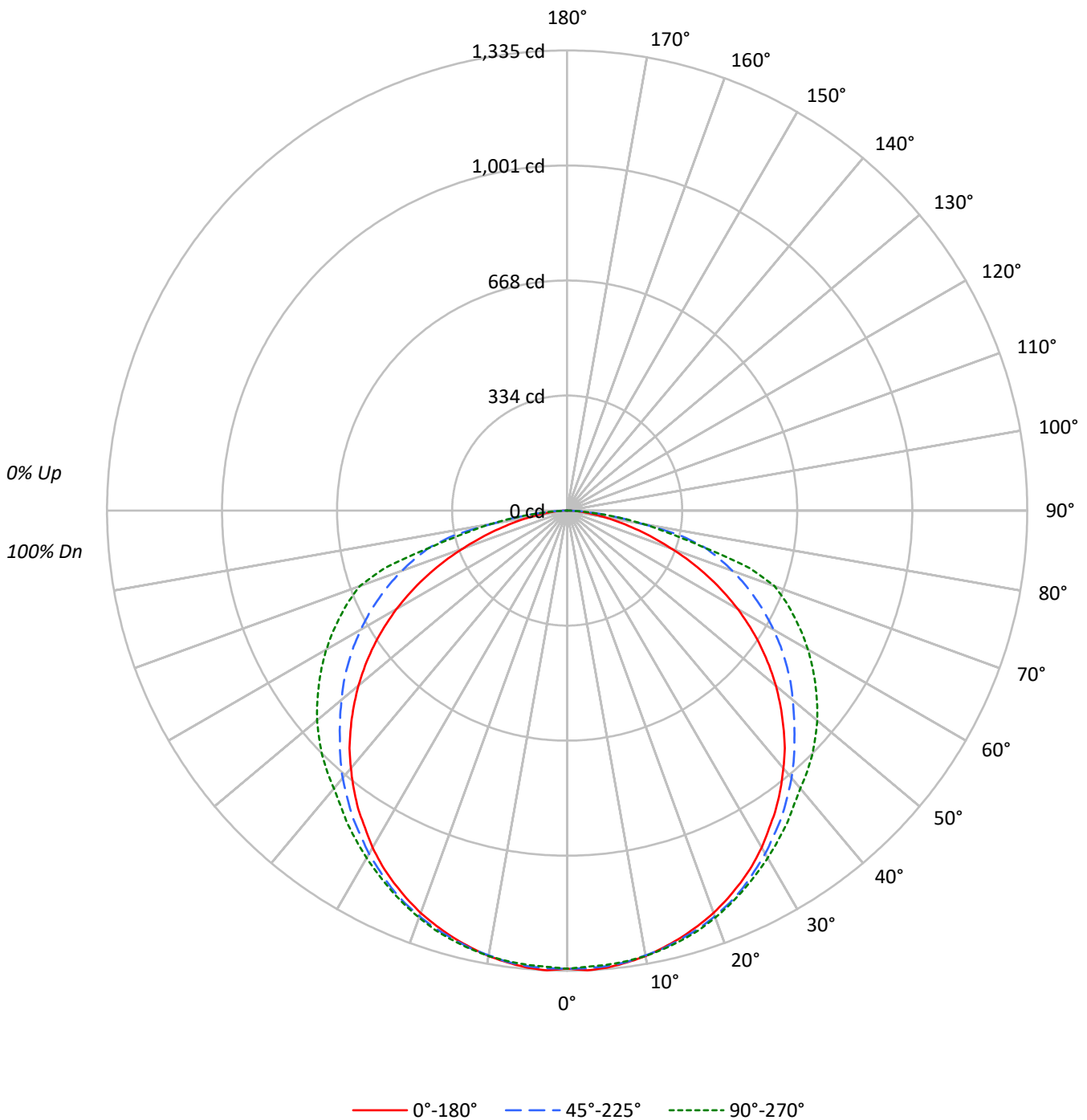
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1788	1788	1788
5°	1798	1792	1786
10°	1793	1790	1793
15°	1785	1791	1796
20°	1779	1793	1799
25°	1768	1792	1801
30°	1754	1786	1808
35°	1735	1783	1824
40°	1714	1780	1848
45°	1688	1775	1912
50°	1654	1788	1983
55°	1607	1820	2062
60°	1538	1860	2171
65°	1432	1918	2313
70°	1266	2005	2517
75°	1062	2145	2113
80°	848	1695	1759
85°	668	1147	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.0
10°-20°	362.7	8.7
20°-30°	554.1	13.2
30°-40°	677.4	16.2
40°-50°	725.1	17.3
50°-60°	695.5	16.6
60°-70°	587.2	14.0
70°-80°	375.3	9.0
80°-90°	88.7	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°	1042.8	24.9
0°-40°	1720.2	41.0
0°-60°	3140.7	74.9
0°-90°	4192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1331	1323	1327	1325	1323	126
15°	1281	1277	1286	1290	1290	362
25°	1191	1189	1207	1211	1213	549
35°	1056	1065	1085	1100	1110	661
45°	887	902	933	976	1005	684
55°	685	708	776	846	879	611
65°	450	493	602	687	726	444
75°	204	291	413	421	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°	1328.9	1328.9	1328.9	1328.9	1328.9
2.5°	1335.1	1326.8	1328.9	1328.9	1324.8
5°	1331.0	1322.7	1326.8	1324.8	1322.7
7.5°	1322.7	1316.5	1320.6	1320.6	1318.6
10°	1312.4	1306.2	1310.3	1312.4	1312.4
12.5°	1297.9	1293.8	1300.0	1300.0	1302.1
15°	1281.4	1277.3	1285.6	1289.7	1289.7
17.5°	1262.9	1260.8	1271.1	1273.2	1275.2
20°	1242.2	1240.2	1252.5	1252.5	1256.7
22.5°	1217.5	1215.4	1231.9	1231.9	1236.0
25°	1190.6	1188.6	1207.2	1211.3	1213.3
27.5°	1161.8	1159.7	1178.3	1184.5	1188.6
30°	1128.7	1128.7	1149.4	1157.6	1163.8
32.5°	1091.6	1097.8	1116.4	1128.7	1137.0
35°	1056.5	1064.8	1085.4	1099.8	1110.2
37.5°	1017.3	1025.6	1048.3	1066.8	1079.2
40°	976.0	986.4	1013.2	1033.8	1052.4
42.5°	934.8	945.1	974.0	1004.9	1029.7
45°	887.3	901.8	932.7	976.0	1004.9
47.5°	839.8	854.3	893.5	947.2	976.0
50°	790.3	806.8	854.3	916.2	947.2
52.5°	738.7	757.3	817.1	883.2	914.1
55°	685.1	707.8	775.9	846.0	879.1
57.5°	629.4	654.1	734.6	808.9	844.0
60°	571.6	602.5	691.3	769.7	806.8
62.5°	511.7	548.9	647.9	728.4	767.6
65°	449.8	493.2	602.5	687.1	726.4
67.5°	385.9	443.7	557.1	645.9	685.1
70°	321.9	390.0	509.7	600.5	639.7
72.5°	262.1	340.5	462.2	546.8	555.1
75°	204.3	291.0	412.7	421.0	406.5
77.5°	152.7	241.4	340.5	303.3	301.3
80°	109.4	194.0	218.7	224.9	227.0
82.5°	72.2	146.5	142.4	146.5	144.4
85°	43.3	72.2	74.3	72.2	68.1
87.5°	20.6	26.8	20.6	18.6	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)