

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: P263851

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263851
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-L92765-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: 4193.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

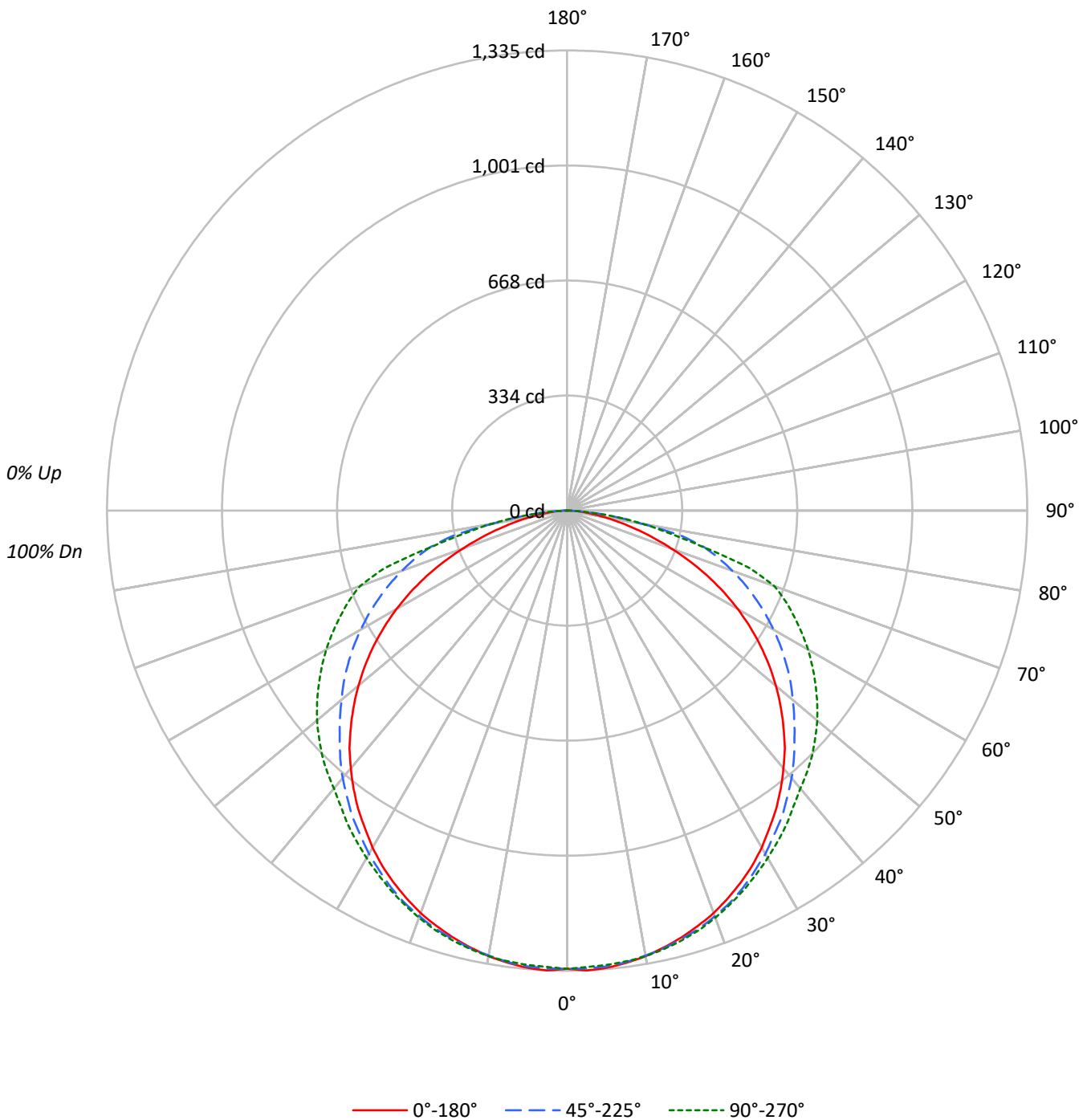
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1788	1788	1788
5°	1798	1793	1787
10°	1793	1791	1793
15°	1785	1791	1797
20°	1779	1794	1800
25°	1768	1792	1802
30°	1754	1786	1809
35°	1736	1783	1824
40°	1715	1780	1849
45°	1689	1775	1913
50°	1655	1789	1983
55°	1607	1821	2063
60°	1538	1861	2172
65°	1433	1919	2313
70°	1267	2006	2517
75°	1062	2146	2114
80°	848	1695	1759
85°	668	1147	1051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.0
10°-20°	362.8	8.7
20°-30°	554.2	13.2
30°-40°	677.5	16.2
40°-50°	725.2	17.3
50°-60°	695.6	16.6
60°-70°	587.4	14.0
70°-80°	375.4	9.0
80°-90°	88.8	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°	1043.1	24.9
0°-40°	1720.6	41.0
0°-60°	3141.5	74.9
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	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°	1282	1278	1286	1290	1290	362
25°	1191	1189	1207	1212	1214	549
35°	1057	1065	1086	1100	1110	661
45°	888	902	933	976	1005	685
55°	685	708	776	846	879	611
65°	450	493	603	687	726	444
75°	204	291	413	421	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°	1329.2	1329.2	1329.2	1329.2	1329.2
2.5°	1335.4	1327.2	1329.2	1329.2	1325.1
5°	1331.3	1323.0	1327.2	1325.1	1323.0
7.5°	1323.0	1316.8	1321.0	1321.0	1318.9
10°	1312.7	1306.5	1310.6	1312.7	1312.7
12.5°	1298.3	1294.1	1300.3	1300.3	1302.4
15°	1281.7	1277.6	1285.9	1290.0	1290.0
17.5°	1263.2	1261.1	1271.4	1273.5	1275.6
20°	1242.5	1240.5	1252.8	1252.8	1257.0
22.5°	1217.8	1215.7	1232.2	1232.2	1236.3
25°	1190.9	1188.9	1207.4	1211.6	1213.6
27.5°	1162.0	1160.0	1178.5	1184.7	1188.9
30°	1129.0	1129.0	1149.6	1157.9	1164.1
32.5°	1091.9	1098.0	1116.6	1129.0	1137.3
35°	1056.8	1065.0	1085.7	1100.1	1110.4
37.5°	1017.6	1025.8	1048.5	1067.1	1079.5
40°	976.3	986.6	1013.4	1034.1	1052.6
42.5°	935.0	945.3	974.2	1005.2	1029.9
45°	887.5	902.0	932.9	976.3	1005.2
47.5°	840.0	854.5	893.7	947.4	976.3
50°	790.5	807.0	854.5	916.4	947.4
52.5°	738.9	757.5	817.3	883.4	914.4
55°	685.2	708.0	776.1	846.2	879.3
57.5°	629.5	654.3	734.8	809.1	844.2
60°	571.7	602.7	691.4	769.9	807.0
62.5°	511.9	549.0	648.1	728.6	767.8
65°	450.0	493.3	602.7	687.3	726.5
67.5°	386.0	443.8	557.3	646.0	685.2
70°	322.0	390.1	509.8	600.6	639.8
72.5°	262.1	340.6	462.3	547.0	555.2
75°	204.3	291.0	412.8	421.1	406.6
77.5°	152.7	241.5	340.6	303.4	301.3
80°	109.4	194.0	218.8	225.0	227.0
82.5°	72.2	146.5	142.4	146.5	144.5
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)