

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: P263713

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263713
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4748.0 lumens
Efficiency: N/A
Efficacy: 93.0 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

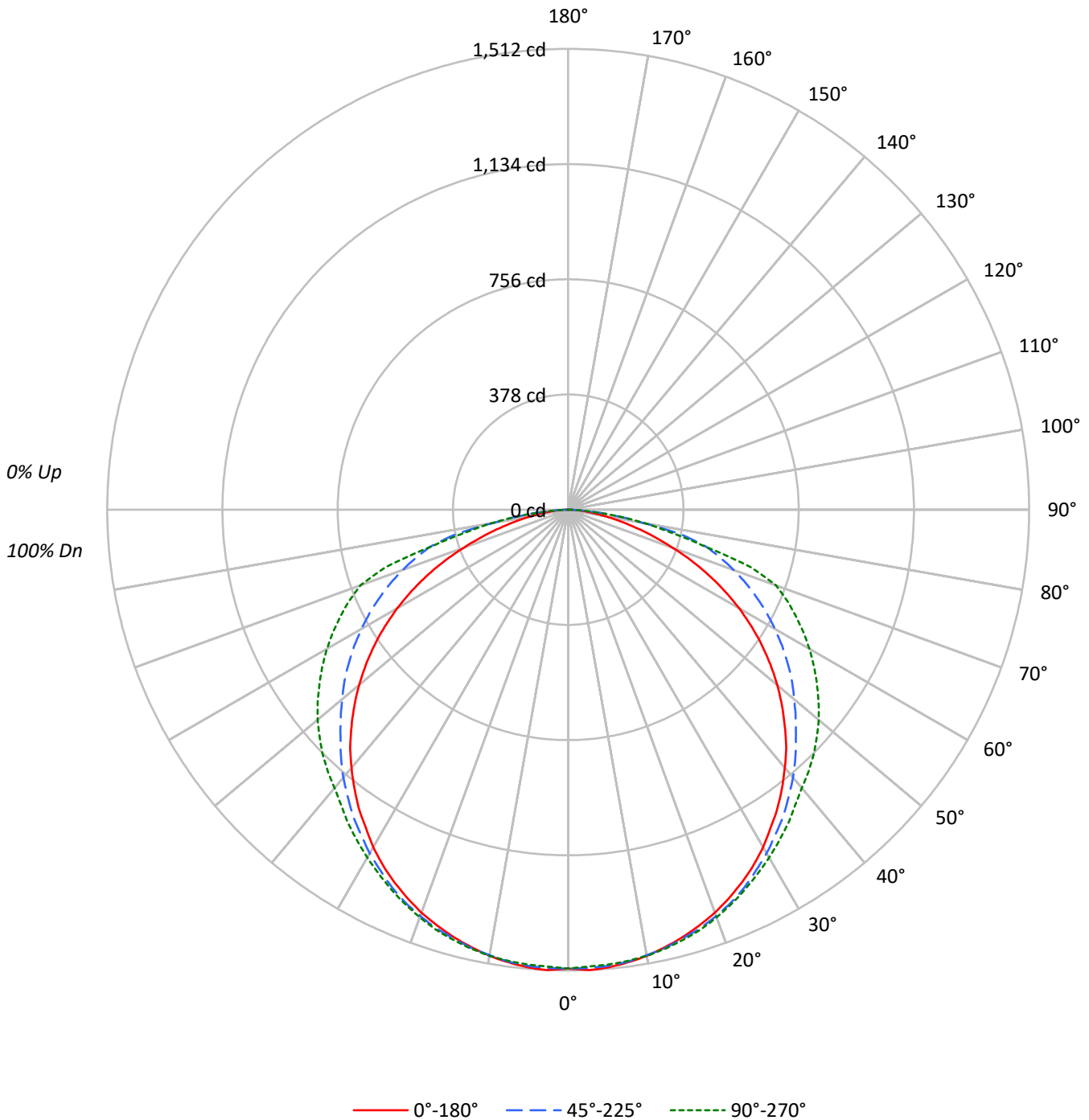
Input Watts (W): 51.057
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2025	2025	2025
5°	2036	2030	2023
10°	2031	2028	2031
15°	2022	2028	2035
20°	2015	2031	2038
25°	2002	2030	2040
30°	1986	2023	2048
35°	1965	2019	2065
40°	1942	2016	2094
45°	1912	2010	2166
50°	1874	2025	2246
55°	1820	2061	2335
60°	1742	2107	2459
65°	1622	2173	2619
70°	1434	2271	2850
75°	1203	2430	2393
80°	960	1919	1992
85°	758	1298	1190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	3.0
10°-20°	410.9	8.7
20°-30°	627.5	13.2
30°-40°	767.2	16.2
40°-50°	821.2	17.3
50°-60°	787.7	16.6
60°-70°	665.1	14.0
70°-80°	425.1	9.0
80°-90°	100.5	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°	1181.2	24.9
0°-40°	1948.4	41.0
0°-60°	3557.3	74.9
0°-90°	4748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1508	1498	1503	1500	1498	143
15°	1451	1447	1456	1461	1461	410
25°	1349	1346	1367	1372	1374	622
35°	1197	1206	1229	1246	1257	748
45°	1005	1021	1056	1106	1138	775
55°	776	802	879	958	996	692
65°	510	559	682	778	823	503
75°	231	330	467	477	460	249
85°	49	82	84	82	77	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.2	1505.2	1505.2	1505.2	1505.2
2.5°	1512.2	1502.8	1505.2	1505.2	1500.5
5°	1507.5	1498.1	1502.8	1500.5	1498.1
7.5°	1498.1	1491.1	1495.8	1495.8	1493.5
10°	1486.5	1479.4	1484.1	1486.5	1486.5
12.5°	1470.1	1465.4	1472.4	1472.4	1474.8
15°	1451.4	1446.7	1456.1	1460.7	1460.7
17.5°	1430.4	1428.0	1439.7	1442.1	1444.4
20°	1407.0	1404.7	1418.7	1418.7	1423.4
22.5°	1378.9	1376.6	1395.3	1395.3	1400.0
25°	1348.6	1346.2	1367.3	1371.9	1374.3
27.5°	1315.8	1313.5	1334.5	1341.6	1346.2
30°	1278.4	1278.4	1301.8	1311.2	1318.2
32.5°	1236.4	1243.4	1264.4	1278.4	1287.8
35°	1196.6	1206.0	1229.4	1245.7	1257.4
37.5°	1152.2	1161.6	1187.3	1208.3	1222.4
40°	1105.5	1117.2	1147.6	1170.9	1192.0
42.5°	1058.8	1070.4	1103.2	1138.2	1166.3
45°	1005.0	1021.4	1056.4	1105.5	1138.2
47.5°	951.2	967.6	1012.0	1072.8	1105.5
50°	895.1	913.8	967.6	1037.7	1072.8
52.5°	836.7	857.8	925.5	1000.3	1035.4
55°	775.9	801.7	878.8	958.3	995.6
57.5°	712.8	740.9	832.0	916.2	955.9
60°	647.4	682.5	783.0	871.8	913.8
62.5°	579.6	621.7	733.9	825.0	869.4
65°	509.5	558.6	682.5	778.3	822.7
67.5°	437.1	502.5	631.0	731.5	775.9
70°	364.6	441.7	577.3	680.1	724.5
72.5°	296.8	385.6	523.5	619.4	628.7
75°	231.4	329.5	467.4	476.8	460.4
77.5°	173.0	273.5	385.6	343.6	341.2
80°	123.9	219.7	247.7	254.8	257.1
82.5°	81.8	165.9	161.3	165.9	163.6
85°	49.1	81.8	84.1	81.8	77.1
87.5°	23.4	30.4	23.4	21.0	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)