

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: P260597

Luminaire Tested: **24CZ-LD5-75-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7123.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

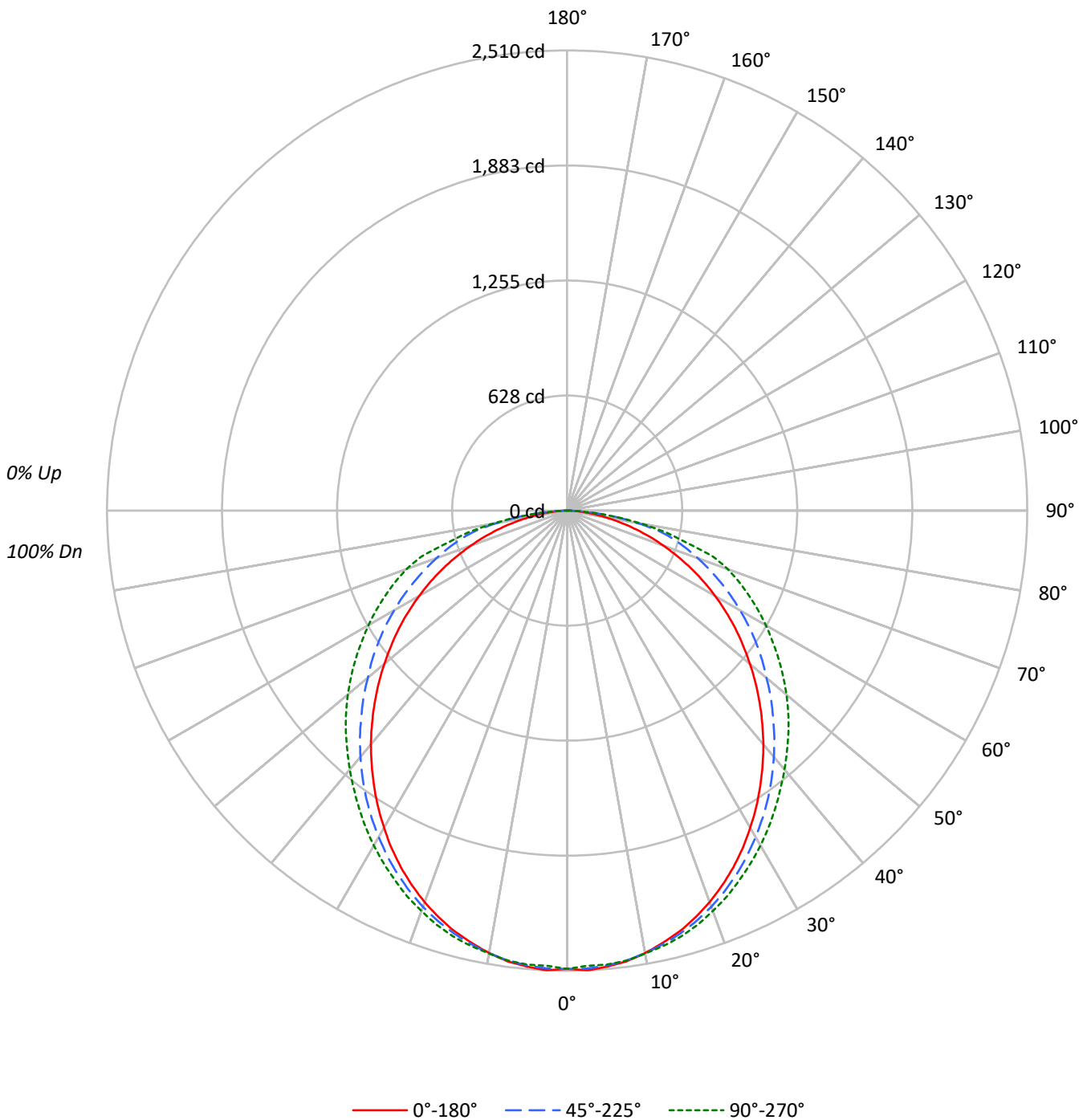
Input Watts (W): 58.287192
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3363	3363	3363
5°	3373	3363	3357
10°	3349	3349	3352
15°	3309	3326	3350
20°	3255	3293	3328
25°	3186	3248	3302
30°	3103	3194	3278
35°	3016	3141	3253
40°	2926	3080	3238
45°	2826	3021	3248
50°	2726	2971	3267
55°	2626	2952	3301
60°	2507	2934	3367
65°	2376	2935	3479
70°	2197	2984	3665
75°	1965	3119	3487
80°	1644	2985	3194
85°	1243	2297	2184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	3.3
10°-20°	672.3	9.4
20°-30°	1005.1	14.1
30°-40°	1192.3	16.7
40°-50°	1227.2	17.2
50°-60°	1125.8	15.8
60°-70°	910.3	12.8
70°-80°	590.8	8.3
80°-90°	162.9	2.3
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°	1913.6	26.9
0°-40°	3106.0	43.6
0°-60°	5459.0	76.6
0°-90°	7123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2497	2480	2490	2488	2485	237
15°	2375	2366	2388	2397	2405	669
25°	2146	2149	2188	2207	2224	988
35°	1836	1851	1912	1954	1980	1148
45°	1485	1510	1588	1663	1707	1146
55°	1119	1154	1258	1361	1407	1000
65°	746	790	922	1044	1093	738
75°	378	449	600	671	671	402
85°	80	137	149	144	142	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2499.8	2499.8	2499.8	2499.8	2499.8
2.5°	2509.6	2490.0	2499.8	2497.4	2485.2
5°	2497.4	2480.3	2490.0	2487.6	2485.2
7.5°	2480.3	2463.2	2475.4	2473.0	2475.4
10°	2451.0	2436.4	2451.0	2453.5	2453.5
12.5°	2414.4	2402.2	2421.8	2426.6	2431.5
15°	2375.4	2365.7	2387.6	2397.4	2404.7
17.5°	2326.6	2319.3	2346.2	2358.4	2368.1
20°	2273.0	2270.6	2299.8	2312.0	2324.2
22.5°	2212.0	2212.0	2246.2	2260.8	2277.9
25°	2146.2	2148.6	2187.6	2207.1	2224.2
27.5°	2075.4	2077.9	2124.2	2148.6	2168.1
30°	1997.4	2007.2	2055.9	2087.6	2109.6
32.5°	1919.4	1931.6	1985.2	2021.8	2046.2
35°	1836.4	1851.1	1912.0	1953.5	1980.3
37.5°	1751.1	1768.2	1834.0	1880.3	1912.0
40°	1665.7	1685.2	1753.5	1807.2	1843.8
42.5°	1575.5	1597.4	1673.0	1736.4	1775.5
45°	1485.2	1509.6	1587.7	1663.3	1707.2
47.5°	1395.0	1424.3	1507.2	1590.1	1636.5
50°	1302.3	1331.6	1419.4	1514.5	1560.9
52.5°	1209.7	1243.8	1341.4	1438.9	1485.2
55°	1119.4	1153.6	1258.4	1360.9	1407.2
57.5°	1026.7	1060.9	1175.5	1282.8	1329.2
60°	931.6	970.7	1090.2	1199.9	1251.1
62.5°	839.0	880.4	1007.2	1124.3	1173.1
65°	746.3	790.2	921.9	1043.8	1092.6
67.5°	651.2	702.4	839.0	963.3	1014.6
70°	558.5	614.6	758.5	882.9	931.6
72.5°	468.3	529.2	678.0	804.8	834.1
75°	378.0	448.7	600.0	670.7	670.7
77.5°	292.7	370.7	512.2	539.0	553.6
80°	212.2	297.5	385.3	417.0	412.2
82.5°	141.5	226.8	275.6	275.6	268.3
85°	80.5	136.6	148.8	143.9	141.5
87.5°	34.1	51.2	46.3	36.6	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)