

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: P260775

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260775
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-LD5-70-UNV-L82765-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: 6657.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

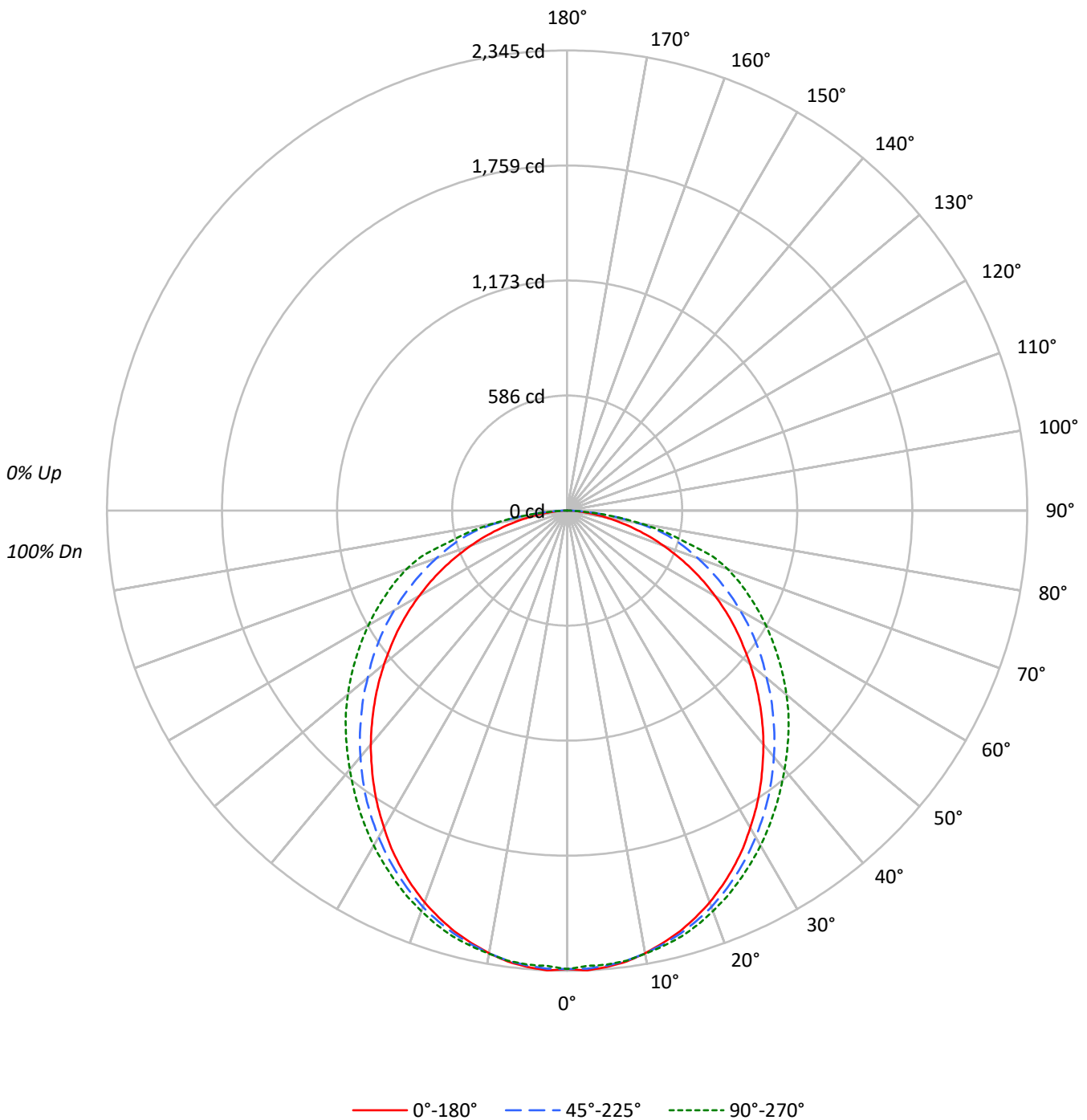
Input Watts (W): 53.289
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3143	3143	3143
5°	3152	3143	3137
10°	3130	3130	3133
15°	3092	3108	3131
20°	3042	3078	3110
25°	2978	3035	3086
30°	2900	2985	3063
35°	2819	2935	3040
40°	2734	2878	3026
45°	2641	2823	3036
50°	2548	2777	3053
55°	2454	2759	3085
60°	2343	2742	3147
65°	2221	2743	3251
70°	2054	2789	3425
75°	1837	2915	3258
80°	1537	2790	2985
85°	1161	2146	2041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	3.3
10°-20°	628.3	9.4
20°-30°	939.3	14.1
30°-40°	1114.3	16.7
40°-50°	1146.9	17.2
50°-60°	1052.2	15.8
60°-70°	850.7	12.8
70°-80°	552.1	8.3
80°-90°	152.2	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°	1788.4	26.9
0°-40°	2902.8	43.6
0°-60°	5101.9	76.6
0°-90°	6657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2336	2336	2336	2336	2336	
5°	2334	2318	2327	2325	2323	221
15°	2220	2211	2231	2240	2247	625
25°	2006	2008	2044	2063	2079	923
35°	1716	1730	1787	1826	1851	1073
45°	1388	1411	1484	1554	1596	1071
55°	1046	1078	1176	1272	1315	935
65°	698	738	862	976	1021	689
75°	353	419	561	627	627	376
85°	75	128	139	134	132	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2336.3	2336.3	2336.3	2336.3	2336.3
2.5°	2345.4	2327.1	2336.3	2334.0	2322.6
5°	2334.0	2318.0	2327.1	2324.9	2322.6
7.5°	2318.0	2302.1	2313.5	2311.2	2313.5
10°	2290.7	2277.0	2290.7	2293.0	2293.0
12.5°	2256.5	2245.1	2263.3	2267.9	2272.4
15°	2220.0	2210.9	2231.4	2240.5	2247.4
17.5°	2174.4	2167.6	2192.7	2204.1	2213.2
20°	2124.3	2122.0	2149.4	2160.8	2172.2
22.5°	2067.3	2067.3	2099.2	2112.9	2128.8
25°	2005.8	2008.0	2044.5	2062.7	2078.7
27.5°	1939.7	1941.9	1985.3	2008.0	2026.3
30°	1866.7	1875.8	1921.4	1951.1	1971.6
32.5°	1793.8	1805.2	1855.3	1889.5	1912.3
35°	1716.3	1730.0	1787.0	1825.7	1850.8
37.5°	1636.5	1652.5	1714.0	1757.3	1787.0
40°	1556.7	1575.0	1638.8	1688.9	1723.1
42.5°	1472.4	1492.9	1563.6	1622.8	1659.3
45°	1388.1	1410.9	1483.8	1554.5	1595.5
47.5°	1303.7	1331.1	1408.6	1486.1	1529.4
50°	1217.1	1244.5	1326.5	1415.4	1458.7
52.5°	1130.5	1162.4	1253.6	1344.8	1388.1
55°	1046.2	1078.1	1176.1	1271.8	1315.1
57.5°	959.6	991.5	1098.6	1198.9	1242.2
60°	870.7	907.2	1018.8	1121.4	1169.3
62.5°	784.1	822.8	941.3	1050.7	1096.3
65°	697.5	738.5	861.6	975.5	1021.1
67.5°	608.6	656.4	784.1	900.3	948.2
70°	522.0	574.4	708.9	825.1	870.7
72.5°	437.6	494.6	633.6	752.2	779.5
75°	353.3	419.4	560.7	626.8	626.8
77.5°	273.5	346.5	478.6	503.7	517.4
80°	198.3	278.1	360.1	389.8	385.2
82.5°	132.2	212.0	257.6	257.6	250.7
85°	75.2	127.6	139.0	134.5	132.2
87.5°	31.9	47.9	43.3	34.2	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)