

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: P260593

Luminaire Tested: **24CZ-LD5-70-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260593
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-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7051.0 lumens
Efficiency: N/A
Efficacy: 131.4 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

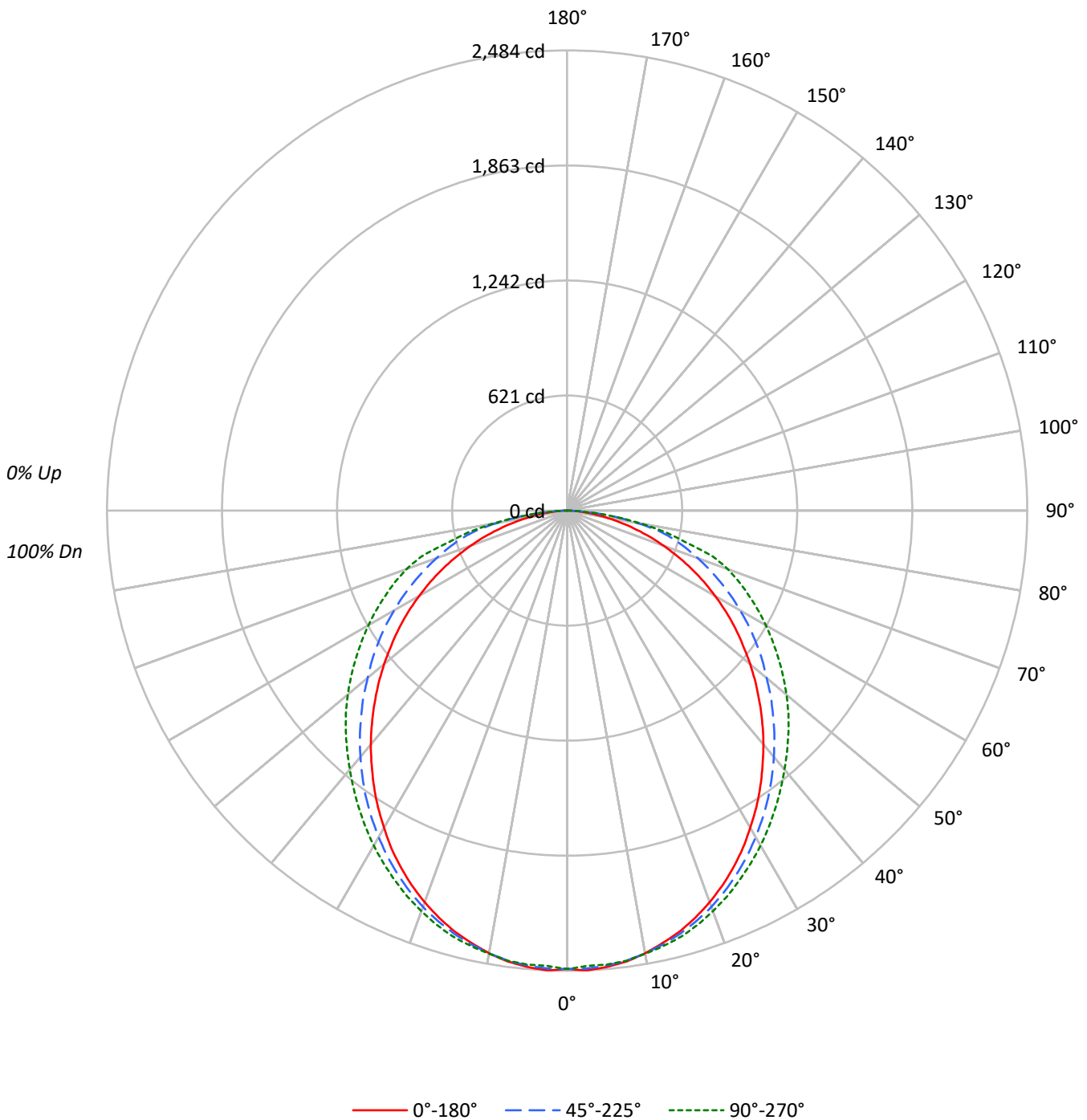
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3329	3329	3329
5°	3339	3329	3323
10°	3315	3315	3318
15°	3275	3292	3316
20°	3222	3260	3294
25°	3154	3215	3269
30°	3072	3162	3244
35°	2986	3109	3220
40°	2896	3049	3206
45°	2798	2990	3216
50°	2699	2941	3234
55°	2599	2922	3268
60°	2482	2904	3333
65°	2352	2905	3443
70°	2175	2954	3628
75°	1945	3087	3451
80°	1627	2955	3161
85°	1230	2274	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	3.3
10°-20°	665.5	9.4
20°-30°	994.9	14.1
30°-40°	1180.3	16.7
40°-50°	1214.8	17.2
50°-60°	1114.4	15.8
60°-70°	901.1	12.8
70°-80°	584.8	8.3
80°-90°	161.2	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°	1894.3	26.9
0°-40°	3074.6	43.6
0°-60°	5403.9	76.6
0°-90°	7051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2472	2455	2465	2462	2460	235
15°	2351	2342	2364	2373	2380	662
25°	2124	2127	2166	2185	2202	978
35°	1818	1832	1893	1934	1960	1137
45°	1470	1494	1572	1646	1690	1135
55°	1108	1142	1246	1347	1393	990
65°	739	782	913	1033	1082	730
75°	374	444	594	664	664	398
85°	80	135	147	142	140	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2474.5	2474.5	2474.5	2474.5	2474.5
2.5°	2484.2	2464.9	2474.5	2472.1	2460.0
5°	2472.1	2455.2	2464.9	2462.5	2460.0
7.5°	2455.2	2438.3	2450.4	2448.0	2450.4
10°	2426.3	2411.8	2426.3	2428.7	2428.7
12.5°	2390.0	2378.0	2397.3	2402.1	2406.9
15°	2351.4	2341.8	2363.5	2373.1	2380.4
17.5°	2303.1	2295.9	2322.4	2334.5	2344.2
20°	2250.0	2247.6	2276.6	2288.6	2300.7
22.5°	2189.7	2189.7	2223.5	2237.9	2254.8
25°	2124.5	2126.9	2165.5	2184.8	2201.7
27.5°	2054.5	2056.9	2102.8	2126.9	2146.2
30°	1977.2	1986.9	2035.2	2066.5	2088.3
32.5°	1900.0	1912.0	1965.1	2001.4	2025.5
35°	1817.9	1832.4	1892.7	1933.8	1960.3
37.5°	1733.4	1750.3	1815.5	1861.3	1892.7
40°	1648.9	1668.2	1735.8	1788.9	1825.1
42.5°	1559.6	1581.3	1656.1	1718.9	1757.5
45°	1470.2	1494.4	1571.6	1646.5	1689.9
47.5°	1380.9	1409.9	1492.0	1574.0	1619.9
50°	1289.2	1318.1	1405.1	1499.2	1545.1
52.5°	1197.4	1231.2	1327.8	1424.4	1470.2
55°	1108.1	1141.9	1245.7	1347.1	1393.0
57.5°	1016.4	1050.2	1163.6	1269.9	1315.7
60°	922.2	960.8	1079.1	1187.8	1238.5
62.5°	830.5	871.5	997.1	1112.9	1161.2
65°	738.7	782.2	912.6	1033.3	1081.6
67.5°	644.6	695.3	830.5	953.6	1004.3
70°	552.8	608.4	750.8	873.9	922.2
72.5°	463.5	523.9	671.1	796.7	825.6
75°	374.2	444.2	593.9	663.9	663.9
77.5°	289.7	367.0	507.0	533.5	548.0
80°	210.0	294.5	381.4	412.8	408.0
82.5°	140.0	224.5	272.8	272.8	265.6
85°	79.7	135.2	147.3	142.4	140.0
87.5°	33.8	50.7	45.9	36.2	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)