

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: P260675

Luminaire Tested: **24CZ-LD5-75-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260675
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-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7040.5 lumens
Efficiency: N/A
Efficacy: 115.7 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

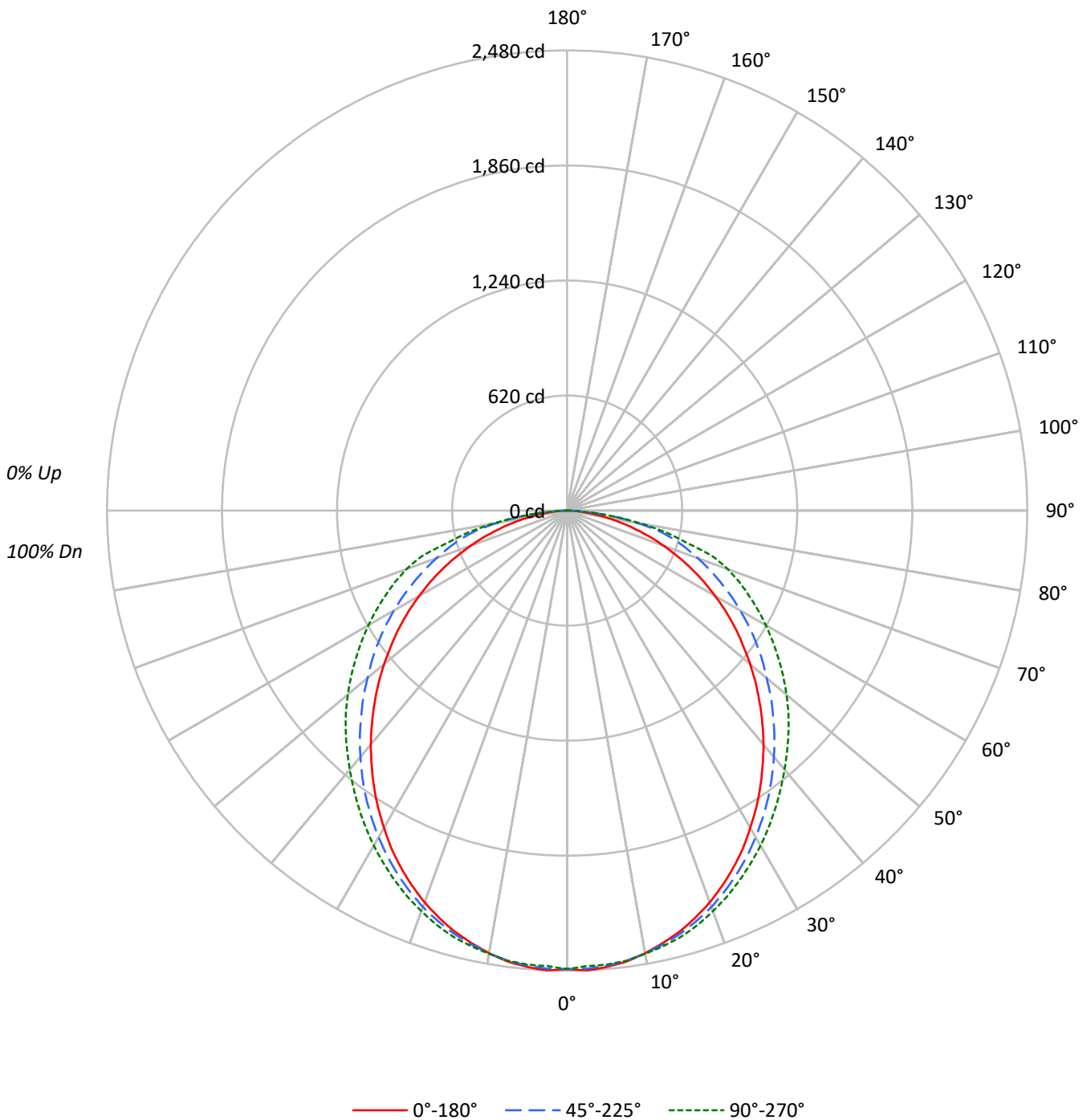
Input Watts (W): 60.856968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3324	3324	3324
5°	3334	3324	3318
10°	3310	3310	3313
15°	3271	3287	3311
20°	3217	3255	3289
25°	3149	3210	3264
30°	3067	3157	3240
35°	2982	3104	3215
40°	2892	3044	3201
45°	2793	2986	3211
50°	2695	2937	3229
55°	2596	2918	3263
60°	2478	2900	3328
65°	2348	2901	3438
70°	2172	2949	3622
75°	1942	3083	3446
80°	1625	2951	3157
85°	1227	2269	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	3.3
10°-20°	664.5	9.4
20°-30°	993.4	14.1
30°-40°	1178.5	16.7
40°-50°	1213.0	17.2
50°-60°	1112.8	15.8
60°-70°	899.7	12.8
70°-80°	583.9	8.3
80°-90°	161.0	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°	1891.5	26.9
0°-40°	3070.0	43.6
0°-60°	5395.8	76.6
0°-90°	7040.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7040.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2471	2471	2471	2471	2471	
5°	2468	2452	2461	2459	2456	234
15°	2348	2338	2360	2370	2377	661
25°	2121	2124	2162	2182	2198	976
35°	1815	1830	1890	1931	1957	1135
45°	1468	1492	1569	1644	1687	1133
55°	1106	1140	1244	1345	1391	988
65°	738	781	911	1032	1080	729
75°	374	444	593	663	663	397
85°	80	135	147	142	140	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470.8	2470.8	2470.8	2470.8	2470.8
2.5°	2480.5	2461.2	2470.8	2468.4	2456.4
5°	2468.4	2451.6	2461.2	2458.8	2456.4
7.5°	2451.6	2434.7	2446.7	2444.3	2446.7
10°	2422.6	2408.2	2422.6	2425.0	2425.0
12.5°	2386.5	2374.4	2393.7	2398.5	2403.4
15°	2347.9	2338.3	2360.0	2369.6	2376.8
17.5°	2299.7	2292.5	2319.0	2331.0	2340.7
20°	2246.7	2244.3	2273.2	2285.2	2297.3
22.5°	2186.4	2186.4	2220.1	2234.6	2251.5
25°	2121.3	2123.7	2162.3	2181.6	2198.5
27.5°	2051.4	2053.8	2099.6	2123.7	2143.0
30°	1974.3	1983.9	2032.1	2063.5	2085.2
32.5°	1897.1	1909.2	1962.2	1998.4	2022.5
35°	1815.2	1829.6	1889.9	1930.9	1957.4
37.5°	1730.8	1747.7	1812.8	1858.6	1889.9
40°	1646.4	1665.7	1733.2	1786.2	1822.4
42.5°	1557.2	1578.9	1653.7	1716.3	1754.9
45°	1468.0	1492.2	1569.3	1644.0	1687.4
47.5°	1378.9	1407.8	1489.7	1571.7	1617.5
50°	1287.3	1316.2	1403.0	1497.0	1542.8
52.5°	1195.6	1229.4	1325.8	1422.2	1468.0
55°	1106.5	1140.2	1243.9	1345.1	1390.9
57.5°	1014.9	1048.6	1161.9	1268.0	1313.8
60°	920.8	959.4	1077.5	1186.0	1236.6
62.5°	829.2	870.2	995.6	1111.3	1159.5
65°	737.6	781.0	911.2	1031.7	1079.9
67.5°	643.6	694.2	829.2	952.2	1002.8
70°	552.0	607.5	749.7	872.6	920.8
72.5°	462.8	523.1	670.1	795.5	824.4
75°	373.6	443.5	593.0	662.9	662.9
77.5°	289.3	366.4	506.2	532.7	547.2
80°	209.7	294.1	380.9	412.2	407.4
82.5°	139.8	224.2	272.4	272.4	265.2
85°	79.5	135.0	147.0	142.2	139.8
87.5°	33.7	50.6	45.8	36.2	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)