

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: P261326

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6258.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

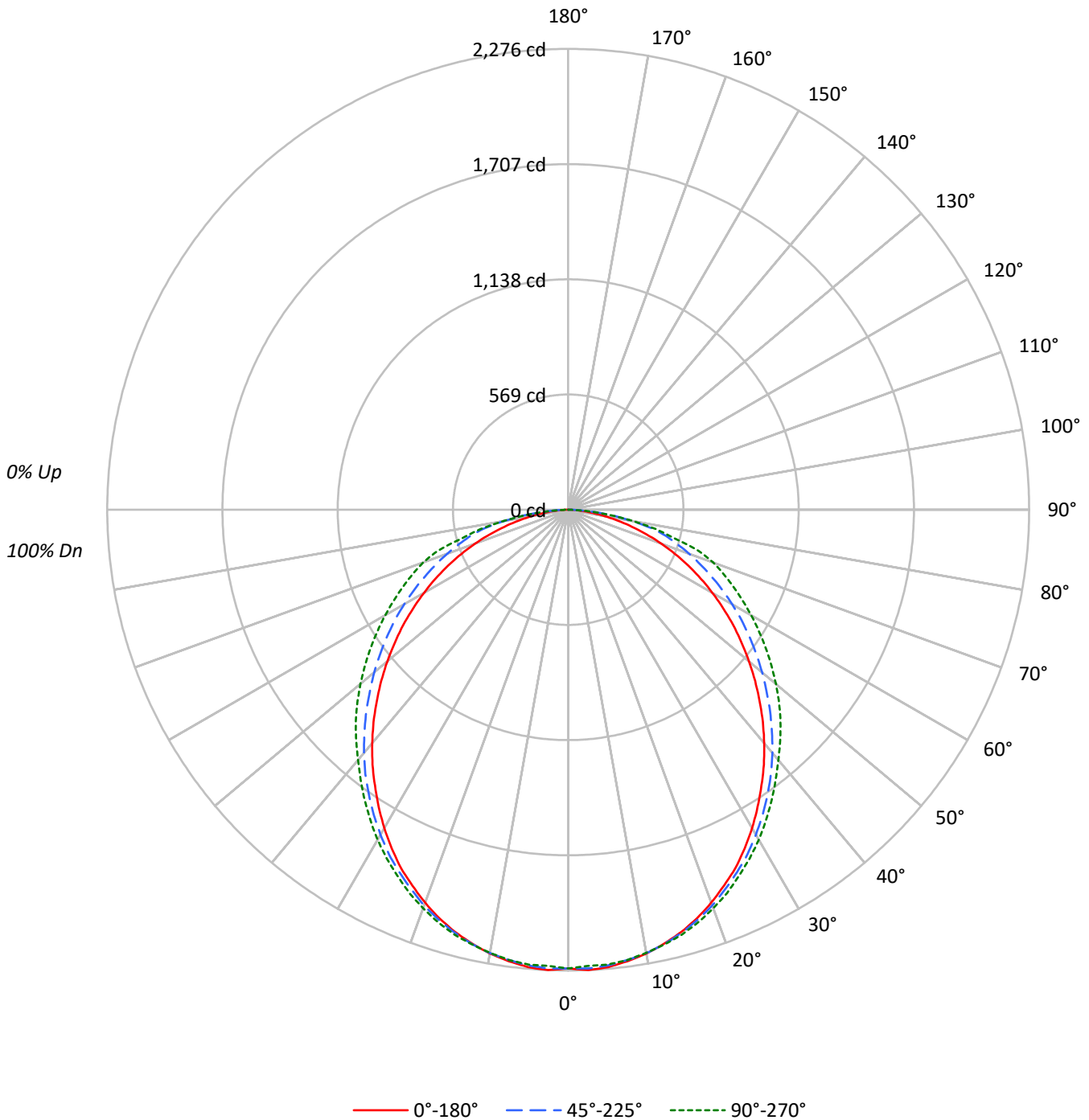
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3048	3048	3048
5°	3063	3051	3046
10°	3041	3038	3036
15°	3008	3014	3025
20°	2958	2979	2999
25°	2900	2931	2961
30°	2821	2879	2925
35°	2733	2818	2876
40°	2644	2754	2834
45°	2544	2682	2821
50°	2441	2615	2803
55°	2335	2559	2794
60°	2213	2516	2807
65°	2082	2486	2864
70°	1917	2498	2998
75°	1699	2587	2793
80°	1420	2452	2517
85°	1061	1961	1800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.4
10°-20°	609.2	9.7
20°-30°	907.8	14.5
30°-40°	1068.7	17.1
40°-50°	1086.0	17.4
50°-60°	976.4	15.6
60°-70°	771.4	12.3
70°-80°	489.4	7.8
80°-90°	135.1	2.2
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°	1731.2	27.7
0°-40°	2799.9	44.7
0°-60°	4862.2	77.7
0°-90°	6258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2266	2266	2266	2266	2266	
5°	2268	2249	2259	2255	2255	215
15°	2159	2149	2164	2170	2172	608
25°	1953	1951	1974	1986	1995	898
35°	1664	1674	1716	1734	1751	1041
45°	1337	1356	1410	1451	1483	1031
55°	995	1020	1091	1162	1191	889
65°	654	687	781	866	900	648
75°	327	383	498	541	537	348
85°	69	119	127	117	117	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2265.5	2265.5	2265.5	2265.5	2265.5
2.5°	2275.9	2259.3	2267.6	2263.4	2255.1
5°	2267.6	2248.9	2259.3	2255.1	2255.1
7.5°	2248.9	2234.3	2242.6	2240.5	2242.6
10°	2225.9	2211.4	2223.9	2223.9	2221.8
12.5°	2194.7	2182.2	2196.8	2196.8	2198.9
15°	2159.3	2148.9	2163.5	2169.7	2171.8
17.5°	2115.6	2105.2	2123.9	2130.2	2136.4
20°	2065.6	2061.4	2080.2	2086.4	2094.8
22.5°	2009.4	2009.4	2028.1	2036.5	2049.0
25°	1953.2	1951.1	1974.0	1986.5	1994.8
27.5°	1886.5	1888.6	1917.8	1930.3	1940.7
30°	1815.7	1819.9	1853.2	1867.8	1882.4
32.5°	1740.8	1749.1	1786.6	1803.2	1817.8
35°	1663.7	1674.1	1715.8	1734.5	1751.2
37.5°	1586.7	1601.3	1645.0	1663.7	1682.5
40°	1505.5	1518.0	1568.0	1590.9	1613.8
42.5°	1422.2	1438.8	1488.8	1522.1	1549.2
45°	1336.8	1355.6	1409.7	1451.3	1482.6
47.5°	1251.4	1276.4	1328.5	1384.7	1411.8
50°	1166.1	1191.1	1249.4	1311.8	1338.9
52.5°	1078.6	1103.6	1170.2	1234.8	1263.9
55°	995.3	1020.3	1091.1	1161.9	1191.1
57.5°	907.9	934.9	1014.1	1086.9	1116.1
60°	822.5	849.6	934.9	1012.0	1043.2
62.5°	739.2	768.4	857.9	939.1	970.3
65°	653.8	687.1	780.9	866.2	899.5
67.5°	570.5	608.0	705.9	795.4	830.8
70°	487.3	531.0	635.1	726.7	762.1
72.5°	406.0	453.9	564.3	655.9	674.7
75°	326.9	383.1	497.7	541.4	537.2
77.5°	252.0	314.4	422.7	431.0	443.5
80°	183.2	252.0	316.5	333.2	324.8
82.5°	120.8	189.5	227.0	218.6	216.6
85°	68.7	118.7	127.0	116.6	116.6
87.5°	29.2	47.9	41.6	31.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)