

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: P276529

Luminaire Tested: **24CZ2-65HE-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6600.1 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

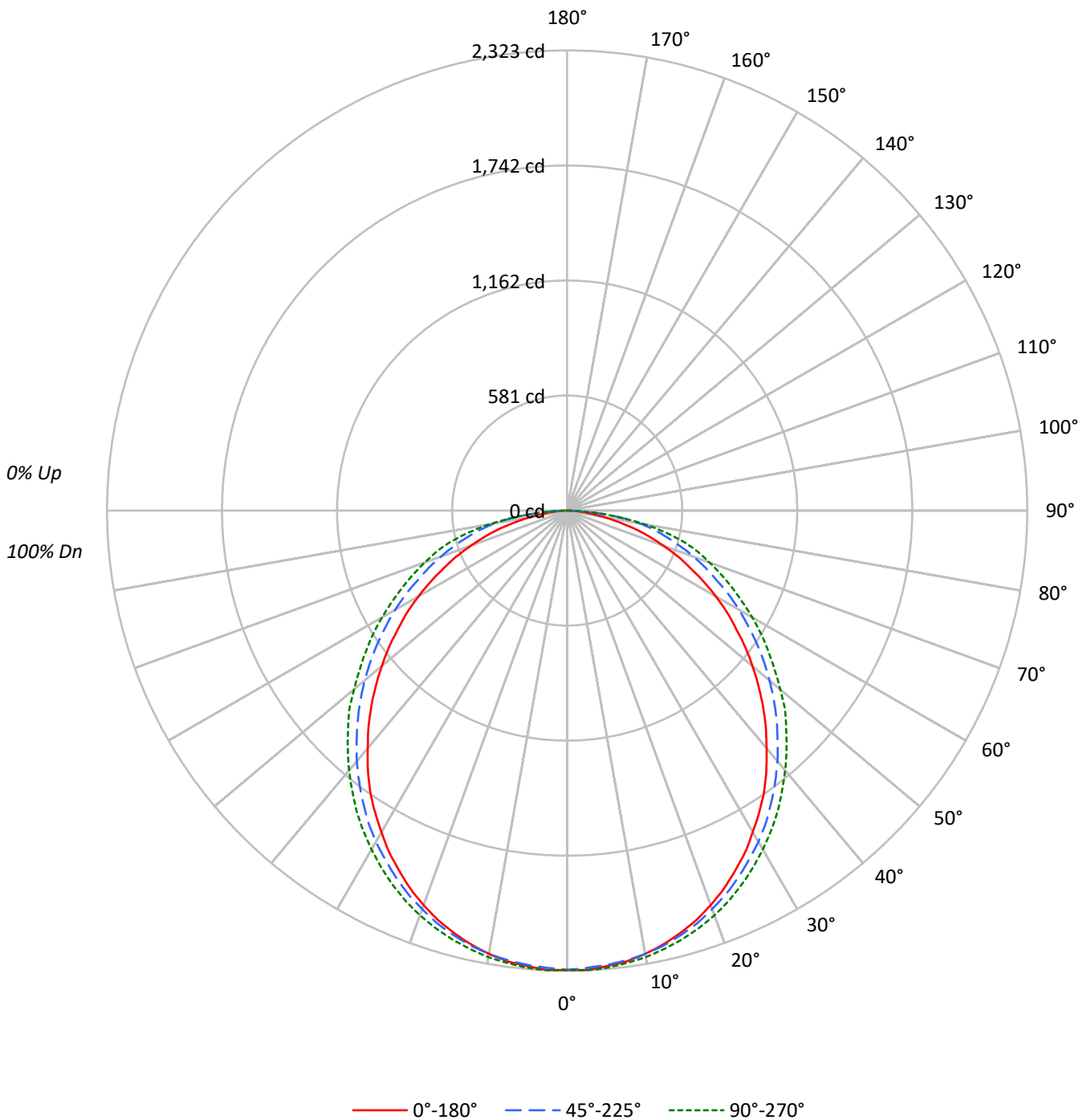
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3120	3120	3120
5°	3118	3109	3129
10°	3105	3105	3128
15°	3075	3090	3122
20°	3035	3065	3113
25°	2979	3034	3094
30°	2912	3000	3068
35°	2848	2951	3044
40°	2751	2902	3008
45°	2661	2844	2976
50°	2558	2791	2940
55°	2444	2739	2911
60°	2330	2697	2905
65°	2182	2650	2923
70°	2020	2664	3002
75°	1809	2714	3172
80°	1462	2875	3102
85°	1101	2524	2459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	3.3
10°-20°	627.2	9.5
20°-30°	942.9	14.3
30°-40°	1123.1	17.0
40°-50°	1149.4	17.4
50°-60°	1034.8	15.7
60°-70°	812.7	12.3
70°-80°	527.4	8.0
80°-90°	163.1	2.5
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°	1789.6	27.1
0°-40°	2912.7	44.1
0°-60°	5096.9	77.2
0°-90°	6600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6600.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2308	2312	2302	2314	2317	219
15°	2208	2214	2218	2237	2241	622
25°	2006	2023	2044	2078	2084	924
35°	1734	1755	1797	1841	1853	1082
45°	1398	1432	1495	1551	1564	1078
55°	1042	1088	1168	1228	1241	934
65°	686	738	832	902	918	682
75°	348	415	522	593	610	368
85°	71	132	164	159	159	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2318.7	2318.7	2318.7	2318.7	2318.7
2.5°	2320.8	2320.8	2310.3	2320.8	2322.9
5°	2308.2	2312.4	2301.9	2314.5	2316.6
7.5°	2295.6	2295.6	2289.3	2301.9	2304.0
10°	2272.5	2274.6	2272.5	2287.2	2289.3
12.5°	2243.2	2247.4	2249.5	2264.2	2266.3
15°	2207.6	2213.8	2218.0	2236.9	2241.1
17.5°	2167.7	2174.0	2184.5	2205.5	2209.7
20°	2119.5	2127.9	2140.5	2167.7	2174.0
22.5°	2067.1	2075.5	2096.4	2121.6	2132.1
25°	2006.3	2023.1	2044.0	2077.6	2083.9
27.5°	1945.5	1960.2	1987.4	2023.1	2031.5
30°	1874.2	1897.3	1930.8	1966.5	1974.8
32.5°	1805.0	1828.1	1867.9	1905.7	1916.1
35°	1733.8	1754.7	1796.7	1840.7	1853.3
37.5°	1652.0	1679.3	1725.4	1769.4	1782.0
40°	1566.0	1599.6	1652.0	1698.1	1712.8
42.5°	1484.3	1519.9	1572.3	1622.6	1639.4
45°	1398.3	1431.9	1494.8	1551.4	1563.9
47.5°	1310.3	1348.0	1415.1	1471.7	1492.7
50°	1222.2	1262.1	1333.3	1392.0	1404.6
52.5°	1134.2	1176.1	1251.6	1314.5	1320.8
55°	1041.9	1088.1	1167.7	1228.5	1241.1
57.5°	958.1	997.9	1083.9	1146.8	1161.4
60°	865.8	909.9	1002.1	1060.8	1079.7
62.5°	777.8	823.9	920.3	979.0	995.8
65°	685.5	737.9	832.3	901.5	918.2
67.5°	605.9	656.2	756.8	823.9	840.7
70°	513.6	570.2	677.2	746.3	763.1
72.5°	434.0	492.7	599.6	666.7	691.8
75°	348.0	415.1	522.0	593.3	610.1
77.5°	264.2	341.7	450.7	505.2	505.2
80°	188.7	270.4	371.1	396.2	400.4
82.5°	123.7	203.4	274.6	272.5	272.5
85°	71.3	132.1	163.5	159.3	159.3
87.5°	27.3	54.5	58.7	58.7	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)