

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: P261179

Luminaire Tested: **24CZ-LD5-60-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261179
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-LD5-60-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6141.0 lumens
Efficiency: N/A
Efficacy: 137.0 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

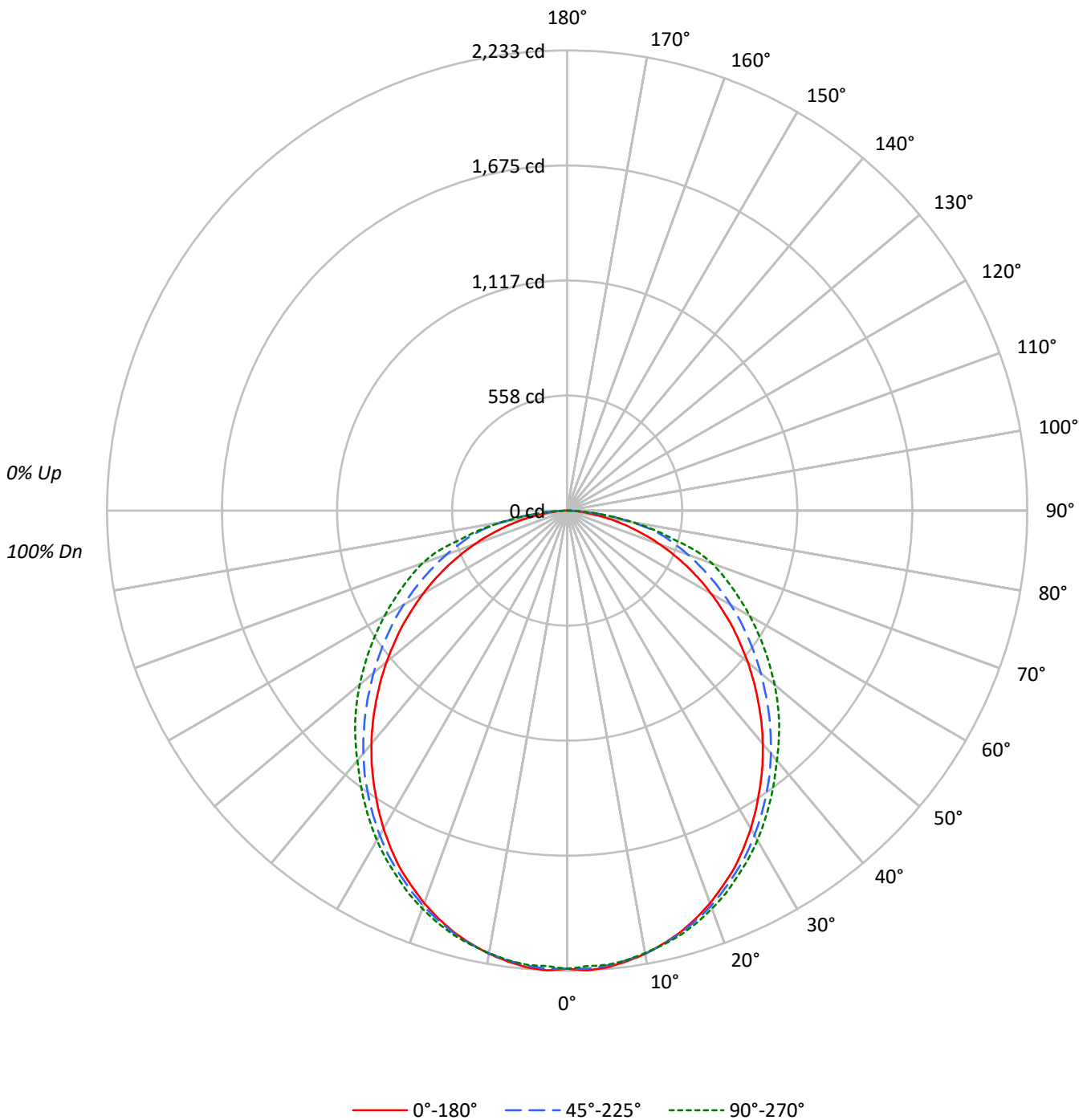
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2991	2991	2991
5°	3005	2994	2989
10°	2984	2982	2979
15°	2952	2957	2969
20°	2902	2923	2943
25°	2846	2876	2906
30°	2768	2825	2870
35°	2682	2766	2823
40°	2595	2702	2781
45°	2496	2632	2768
50°	2395	2566	2750
55°	2291	2512	2742
60°	2172	2469	2755
65°	2043	2440	2810
70°	1881	2452	2942
75°	1668	2539	2741
80°	1393	2407	2470
85°	1041	1924	1766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	3.4
10°-20°	597.8	9.7
20°-30°	890.9	14.5
30°-40°	1048.7	17.1
40°-50°	1065.7	17.4
50°-60°	958.1	15.6
60°-70°	756.9	12.3
70°-80°	480.2	7.8
80°-90°	132.5	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°	1698.8	27.7
0°-40°	2747.5	44.7
0°-60°	4771.3	77.7
0°-90°	6141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2223	2223	2223	2223	2223	
5°	2225	2207	2217	2213	2213	211
15°	2119	2109	2123	2129	2131	597
25°	1917	1915	1937	1949	1958	881
35°	1633	1643	1684	1702	1718	1021
45°	1312	1330	1383	1424	1455	1012
55°	977	1001	1071	1140	1169	872
65°	642	674	766	850	883	636
75°	321	376	488	531	527	341
85°	67	116	125	114	114	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2223.2	2223.2	2223.2	2223.2	2223.2
2.5°	2233.4	2217.0	2225.2	2221.1	2212.9
5°	2225.2	2206.8	2217.0	2212.9	2212.9
7.5°	2206.8	2192.5	2200.7	2198.6	2200.7
10°	2184.3	2170.0	2182.3	2182.3	2180.2
12.5°	2153.7	2141.4	2155.7	2155.7	2157.8
15°	2118.9	2108.7	2123.0	2129.2	2131.2
17.5°	2076.0	2065.8	2084.2	2090.3	2096.5
20°	2027.0	2022.9	2041.3	2047.4	2055.6
22.5°	1971.8	1971.8	1990.2	1998.4	2010.6
25°	1916.7	1914.6	1937.1	1949.3	1957.5
27.5°	1851.3	1853.3	1881.9	1894.2	1904.4
30°	1781.8	1785.9	1818.6	1832.9	1847.2
32.5°	1708.2	1716.4	1753.2	1769.5	1783.8
35°	1632.6	1642.8	1683.7	1702.1	1718.4
37.5°	1557.0	1571.3	1614.2	1632.6	1651.0
40°	1477.3	1489.6	1538.6	1561.1	1583.6
42.5°	1395.6	1411.9	1461.0	1493.7	1520.2
45°	1311.8	1330.2	1383.3	1424.2	1454.9
47.5°	1228.0	1252.6	1303.7	1358.8	1385.4
50°	1144.3	1168.8	1226.0	1287.3	1313.9
52.5°	1058.5	1083.0	1148.4	1211.7	1240.3
55°	976.7	1001.2	1070.7	1140.2	1168.8
57.5°	890.9	917.5	995.1	1066.6	1095.2
60°	807.1	833.7	917.5	993.1	1023.7
62.5°	725.4	754.0	841.9	921.5	952.2
65°	641.6	674.3	766.3	850.0	882.7
67.5°	559.9	596.7	692.7	780.6	815.3
70°	478.1	521.1	623.2	713.1	747.9
72.5°	398.5	445.4	553.7	643.7	662.0
75°	320.8	376.0	488.4	531.3	527.2
77.5°	247.2	308.5	414.8	423.0	435.2
80°	179.8	247.2	310.6	326.9	318.8
82.5°	118.5	185.9	222.7	214.6	212.5
85°	67.4	116.5	124.6	114.4	114.4
87.5°	28.6	47.0	40.9	30.7	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)