

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: P260764

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260764
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-LD5-60-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.0 lumens
Efficiency: N/A
Efficacy: 136.4 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

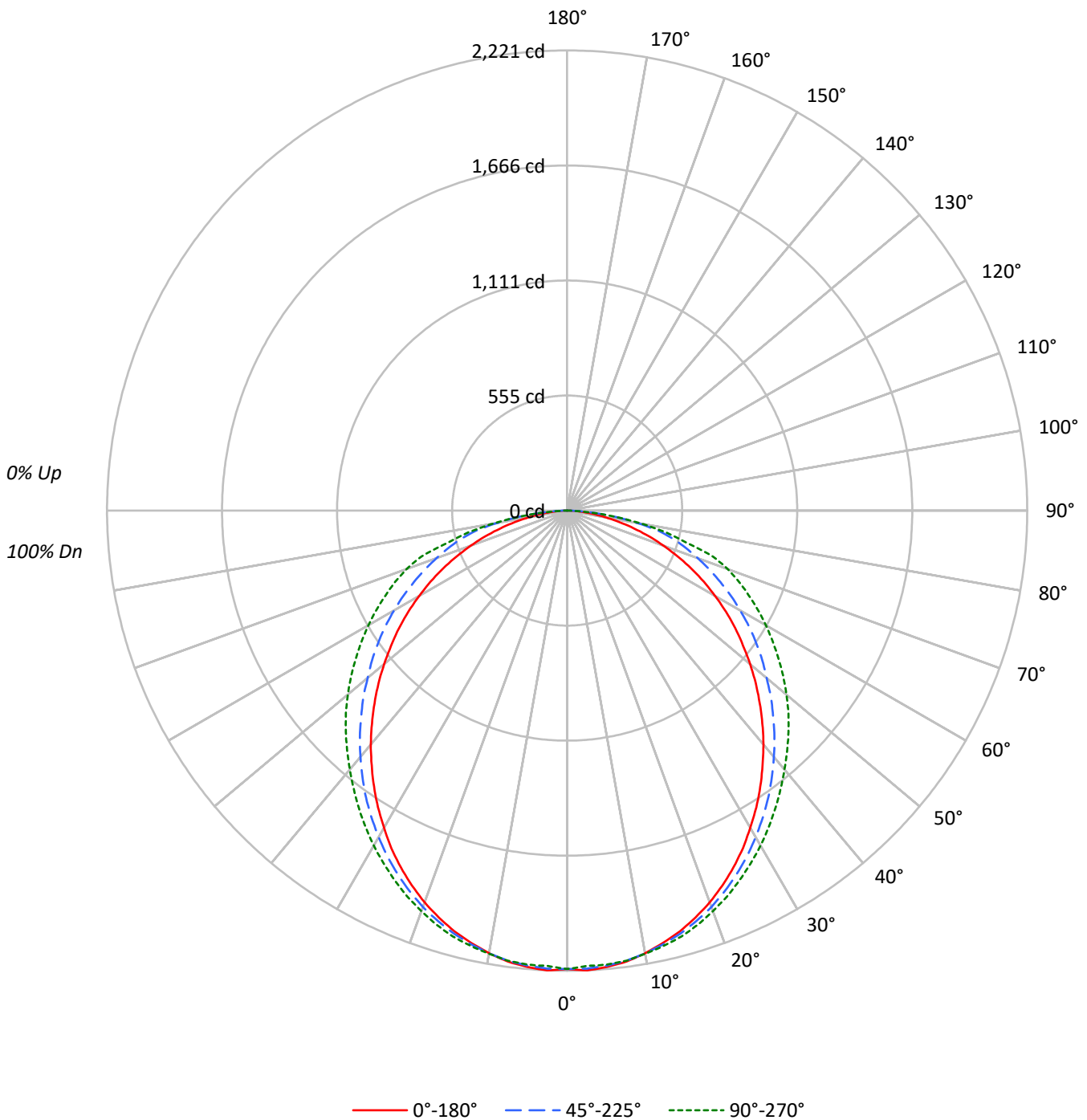
Input Watts (W): 46.221
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2977	2977	2977
5°	2986	2977	2971
10°	2964	2964	2967
15°	2929	2944	2965
20°	2881	2915	2946
25°	2820	2875	2923
30°	2747	2827	2901
35°	2670	2780	2879
40°	2590	2726	2866
45°	2502	2674	2875
50°	2413	2630	2892
55°	2324	2613	2922
60°	2219	2597	2980
65°	2103	2598	3079
70°	1945	2641	3244
75°	1739	2761	3086
80°	1455	2643	2827
85°	1099	2033	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	3.3
10°-20°	595.1	9.4
20°-30°	889.7	14.1
30°-40°	1055.4	16.7
40°-50°	1086.3	17.2
50°-60°	996.5	15.8
60°-70°	805.7	12.8
70°-80°	522.9	8.3
80°-90°	144.2	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°	1693.9	26.9
0°-40°	2749.3	43.6
0°-60°	4832.1	76.6
0°-90°	6305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2211	2196	2204	2202	2200	210
15°	2103	2094	2113	2122	2128	592
25°	1900	1902	1936	1954	1969	874
35°	1626	1638	1692	1729	1753	1017
45°	1315	1336	1405	1472	1511	1015
55°	991	1021	1114	1205	1246	885
65°	661	699	816	924	967	653
75°	335	397	531	594	594	356
85°	71	121	132	127	125	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2221.4	2204.1	2212.7	2210.6	2199.8
5°	2210.6	2195.5	2204.1	2201.9	2199.8
7.5°	2195.5	2180.3	2191.1	2189.0	2191.1
10°	2169.6	2156.6	2169.6	2171.7	2171.7
12.5°	2137.2	2126.4	2143.6	2148.0	2152.3
15°	2102.6	2094.0	2113.4	2122.1	2128.5
17.5°	2059.5	2053.0	2076.7	2087.5	2096.2
20°	2012.0	2009.8	2035.7	2046.5	2057.3
22.5°	1958.0	1958.0	1988.2	2001.2	2016.3
25°	1899.7	1901.9	1936.4	1953.7	1968.8
27.5°	1837.1	1839.3	1880.3	1901.9	1919.1
30°	1768.0	1776.7	1819.8	1847.9	1867.3
32.5°	1698.9	1709.7	1757.2	1789.6	1811.2
35°	1625.5	1638.5	1692.5	1729.2	1752.9
37.5°	1550.0	1565.1	1623.4	1664.4	1692.5
40°	1474.4	1491.7	1552.1	1599.6	1632.0
42.5°	1394.6	1414.0	1480.9	1537.0	1571.6
45°	1314.7	1336.3	1405.4	1472.3	1511.1
47.5°	1234.8	1260.7	1334.1	1407.5	1448.5
50°	1152.8	1178.7	1256.4	1340.6	1381.6
52.5°	1070.7	1101.0	1187.3	1273.7	1314.7
55°	990.9	1021.1	1113.9	1204.6	1245.6
57.5°	908.8	939.1	1040.5	1135.5	1176.5
60°	824.6	859.2	965.0	1062.1	1107.4
62.5°	742.6	779.3	891.6	995.2	1038.4
65°	660.6	699.4	816.0	923.9	967.1
67.5°	576.4	621.7	742.6	852.7	898.0
70°	494.4	544.0	671.4	781.5	824.6
72.5°	414.5	468.5	600.1	712.4	738.3
75°	334.6	397.2	531.1	593.7	593.7
77.5°	259.1	328.1	453.3	477.1	490.0
80°	187.8	263.4	341.1	369.1	364.8
82.5°	125.2	200.8	243.9	243.9	237.5
85°	71.2	120.9	131.7	127.4	125.2
87.5°	30.2	45.3	41.0	32.4	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)