

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: P260754

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260754
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-LD5-55-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5786.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

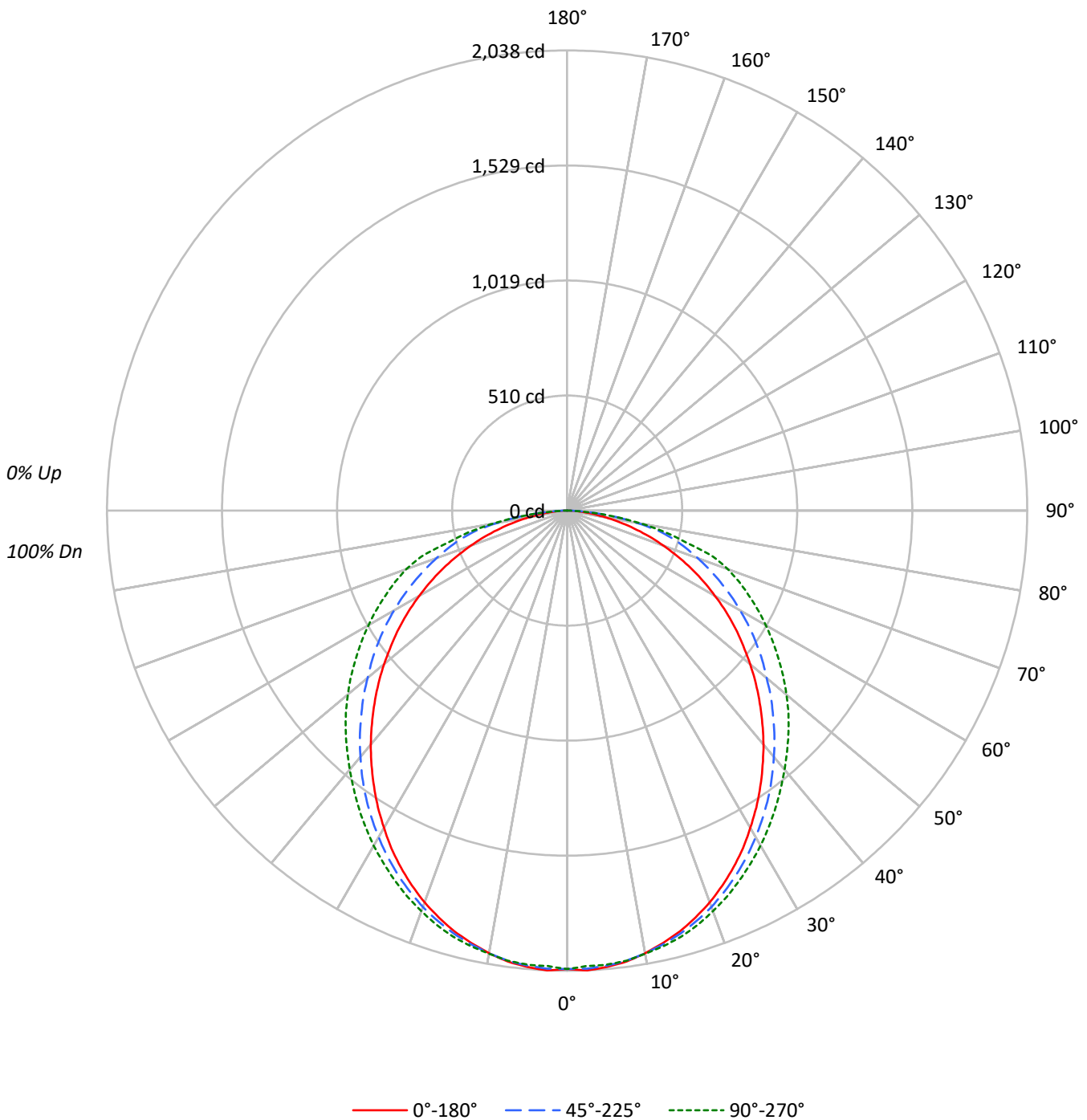
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2732	2732	2732
5°	2740	2732	2727
10°	2720	2720	2723
15°	2688	2702	2721
20°	2644	2675	2703
25°	2588	2638	2682
30°	2521	2595	2662
35°	2450	2551	2642
40°	2377	2502	2631
45°	2296	2454	2639
50°	2214	2413	2654
55°	2133	2398	2681
60°	2037	2383	2735
65°	1930	2384	2826
70°	1785	2424	2977
75°	1596	2533	2832
80°	1336	2425	2594
85°	1010	1865	1774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.3
10°-20°	546.1	9.4
20°-30°	816.4	14.1
30°-40°	968.5	16.7
40°-50°	996.9	17.2
50°-60°	914.5	15.8
60°-70°	739.4	12.8
70°-80°	479.9	8.3
80°-90°	132.3	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°	1554.4	26.9
0°-40°	2523.0	43.6
0°-60°	4434.4	76.6
0°-90°	5786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2029	2015	2023	2021	2019	192
15°	1930	1922	1940	1947	1953	544
25°	1743	1745	1777	1793	1807	802
35°	1492	1504	1553	1587	1609	933
45°	1206	1226	1290	1351	1387	931
55°	909	937	1022	1105	1143	812
65°	606	642	749	848	888	599
75°	307	364	487	545	545	326
85°	65	111	121	117	115	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.6	2030.6	2030.6	2030.6	2030.6
2.5°	2038.5	2022.7	2030.6	2028.6	2018.7
5°	2028.6	2014.7	2022.7	2020.7	2018.7
7.5°	2014.7	2000.9	2010.8	2008.8	2010.8
10°	1991.0	1979.1	1991.0	1992.9	1992.9
12.5°	1961.2	1951.3	1967.2	1971.2	1975.1
15°	1929.6	1921.6	1939.5	1947.4	1953.3
17.5°	1889.9	1884.0	1905.8	1915.7	1923.6
20°	1846.3	1844.4	1868.1	1878.0	1887.9
22.5°	1796.8	1796.8	1824.6	1836.4	1850.3
25°	1743.3	1745.3	1777.0	1792.9	1806.7
27.5°	1685.9	1687.9	1725.5	1745.3	1761.2
30°	1622.5	1630.4	1670.0	1695.8	1713.6
32.5°	1559.1	1569.0	1612.6	1642.3	1662.1
35°	1491.7	1503.6	1553.2	1586.8	1608.6
37.5°	1422.4	1436.3	1489.8	1527.4	1553.2
40°	1353.1	1368.9	1424.4	1468.0	1497.7
42.5°	1279.8	1297.6	1359.0	1410.5	1442.2
45°	1206.5	1226.3	1289.7	1351.1	1386.7
47.5°	1133.2	1156.9	1224.3	1291.7	1329.3
50°	1057.9	1081.7	1153.0	1230.2	1267.9
52.5°	982.6	1010.3	1089.6	1168.8	1206.5
55°	909.3	937.0	1022.2	1105.4	1143.1
57.5°	834.0	861.8	954.9	1042.0	1079.7
60°	756.8	788.5	885.5	974.7	1016.3
62.5°	681.5	715.2	818.2	913.3	952.9
65°	606.2	641.9	748.8	847.9	887.5
67.5°	528.9	570.5	681.5	782.5	824.1
70°	453.7	499.2	616.1	717.1	756.8
72.5°	380.4	429.9	550.7	653.7	677.5
75°	307.1	364.5	487.3	544.8	544.8
77.5°	237.7	301.1	416.0	437.8	449.7
80°	172.4	241.7	313.0	338.8	334.8
82.5°	114.9	184.2	223.9	223.9	217.9
85°	65.4	110.9	120.8	116.9	114.9
87.5°	27.7	41.6	37.6	29.7	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)