

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: P260780

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260780
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-LD5-70-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7332.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

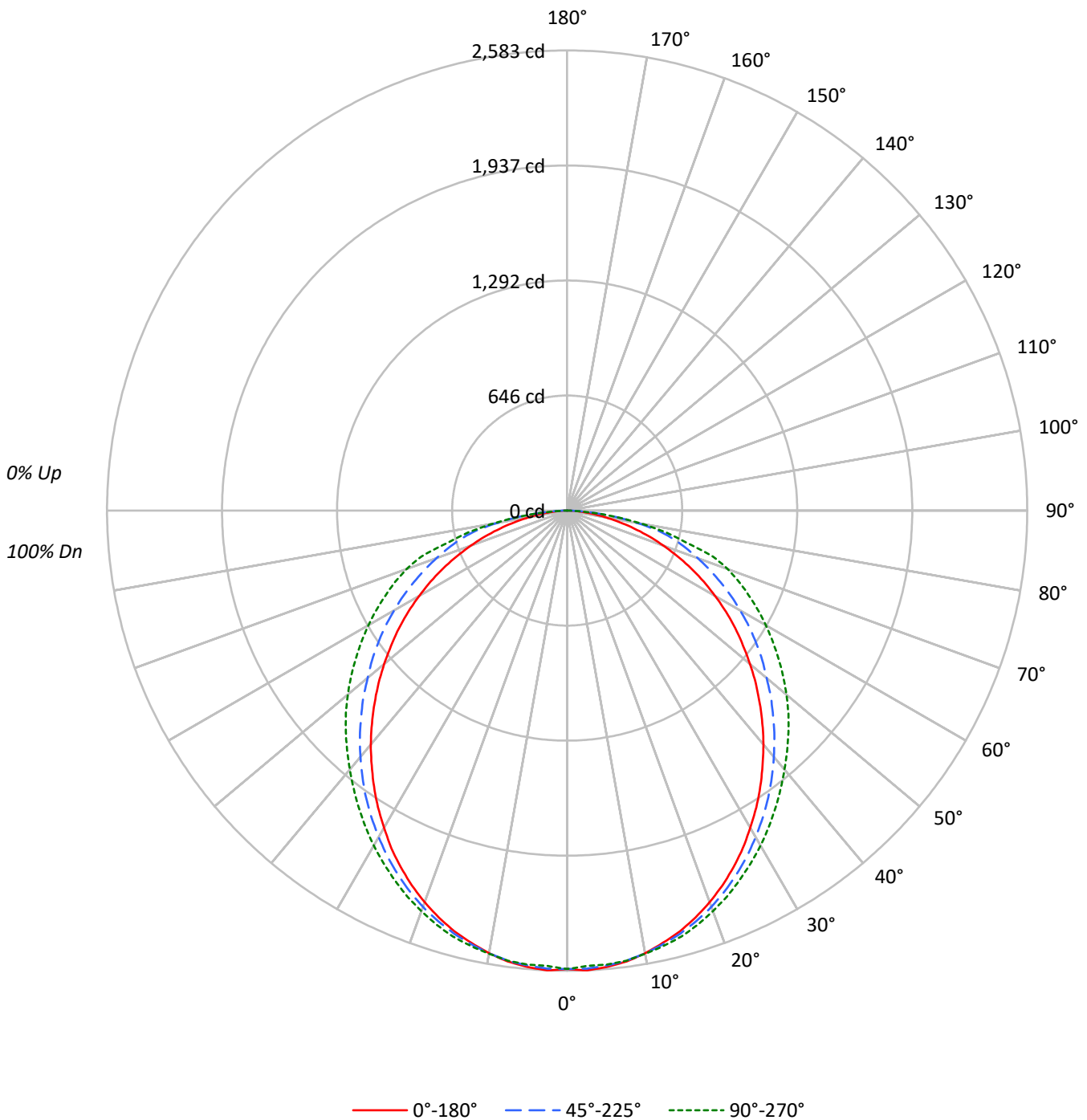
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3462	3462	3462
5°	3472	3462	3455
10°	3447	3447	3450
15°	3406	3423	3448
20°	3350	3390	3426
25°	3280	3343	3399
30°	3194	3288	3374
35°	3105	3233	3348
40°	3012	3170	3333
45°	2909	3110	3344
50°	2806	3058	3363
55°	2703	3039	3398
60°	2581	3020	3465
65°	2446	3021	3581
70°	2262	3071	3773
75°	2023	3211	3589
80°	1692	3073	3288
85°	1278	2364	2248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	3.3
10°-20°	692.0	9.4
20°-30°	1034.6	14.1
30°-40°	1227.3	16.7
40°-50°	1263.2	17.2
50°-60°	1158.9	15.8
60°-70°	937.0	12.8
70°-80°	608.1	8.3
80°-90°	167.7	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°	1969.8	26.9
0°-40°	3197.1	43.6
0°-60°	5619.2	76.6
0°-90°	7332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2573	2573	2573	2573	2573	
5°	2571	2553	2563	2561	2558	244
15°	2445	2435	2458	2468	2475	689
25°	2209	2212	2252	2272	2290	1017
35°	1890	1905	1968	2011	2038	1182
45°	1529	1554	1634	1712	1757	1180
55°	1152	1187	1295	1401	1448	1029
65°	768	813	949	1074	1125	759
75°	389	462	618	690	690	414
85°	83	141	153	148	146	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.2	2573.2	2573.2	2573.2	2573.2
2.5°	2583.2	2563.1	2573.2	2570.6	2558.1
5°	2570.6	2553.1	2563.1	2560.6	2558.1
7.5°	2553.1	2535.5	2548.0	2545.5	2548.0
10°	2522.9	2507.9	2522.9	2525.5	2525.5
12.5°	2485.3	2472.7	2492.8	2497.8	2502.9
15°	2445.1	2435.1	2457.7	2467.7	2475.2
17.5°	2394.9	2387.4	2415.0	2427.5	2437.6
20°	2339.7	2337.2	2367.3	2379.9	2392.4
22.5°	2276.9	2276.9	2312.1	2327.1	2344.7
25°	2209.1	2211.7	2251.8	2271.9	2289.5
27.5°	2136.3	2138.9	2186.6	2211.7	2231.7
30°	2056.0	2066.1	2116.3	2148.9	2171.5
32.5°	1975.7	1988.2	2043.5	2081.1	2106.2
35°	1890.3	1905.4	1968.1	2010.8	2038.4
37.5°	1802.5	1820.0	1887.8	1935.5	1968.1
40°	1714.6	1734.7	1805.0	1860.2	1897.9
42.5°	1621.7	1644.3	1722.1	1787.4	1827.6
45°	1528.8	1553.9	1634.3	1712.1	1757.3
47.5°	1435.9	1466.1	1551.4	1636.8	1684.5
50°	1340.5	1370.7	1461.0	1559.0	1606.7
52.5°	1245.2	1280.3	1380.7	1481.1	1528.8
55°	1152.3	1187.4	1295.4	1400.8	1448.5
57.5°	1056.9	1092.0	1210.0	1320.5	1368.2
60°	959.0	999.1	1122.1	1235.1	1287.8
62.5°	863.6	906.3	1036.8	1157.3	1207.5
65°	768.2	813.4	948.9	1074.4	1124.7
67.5°	670.3	723.0	863.6	991.6	1044.3
70°	574.9	632.6	780.7	908.8	959.0
72.5°	482.0	544.8	697.9	828.4	858.6
75°	389.1	461.9	617.6	690.4	690.4
77.5°	301.2	381.6	527.2	554.8	569.9
80°	218.4	306.3	396.6	429.3	424.3
82.5°	145.6	233.5	283.7	283.7	276.1
85°	82.8	140.6	153.1	148.1	145.6
87.5°	35.1	52.7	47.7	37.7	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)