

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: P275933

Luminaire Tested: **24CZ2-70HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

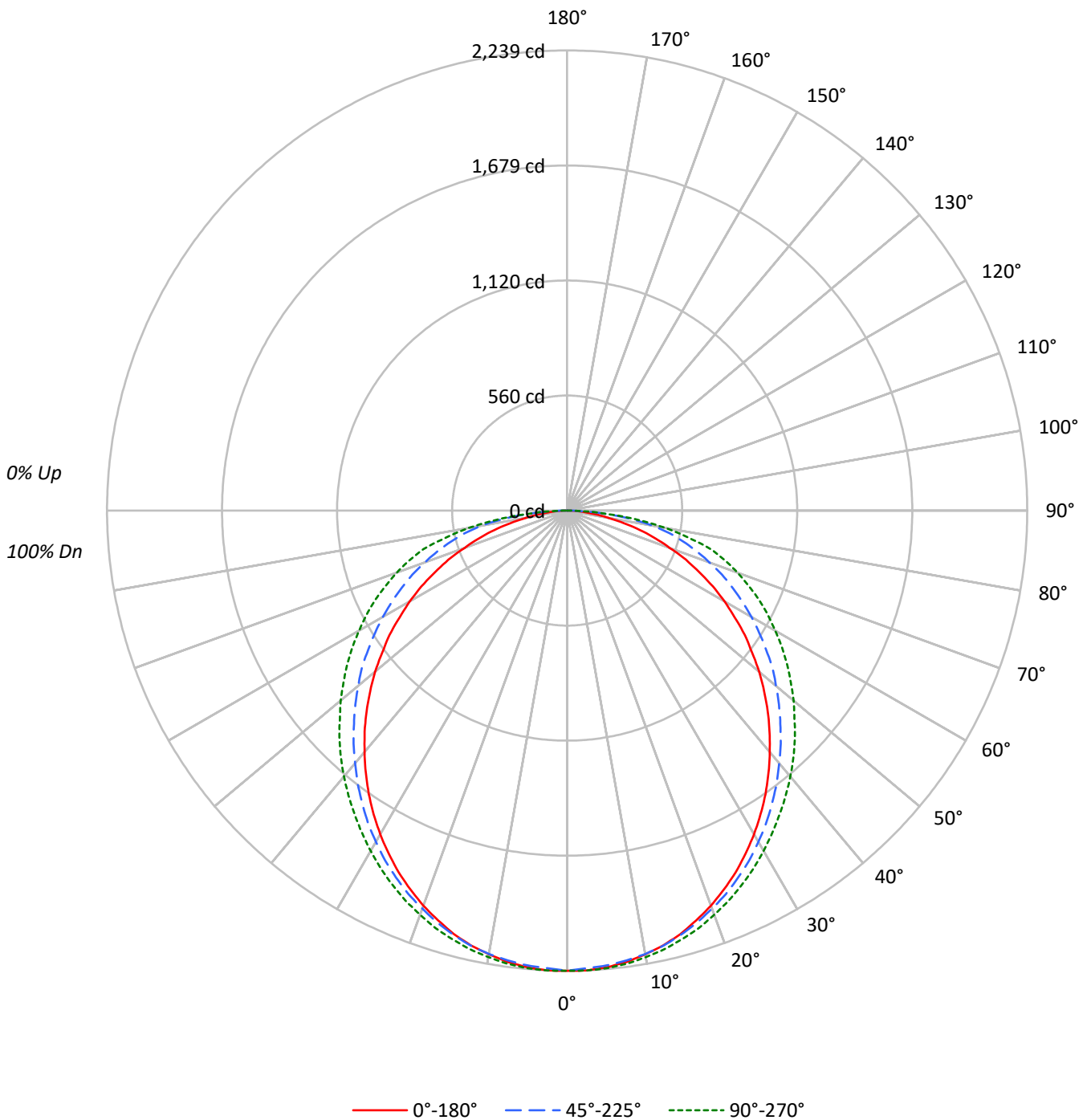
Input Watts (W): 53.661
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3013	3013	3013
5°	3013	3001	3019
10°	2996	2993	3014
15°	2971	2977	3008
20°	2929	2951	2996
25°	2882	2925	2984
30°	2826	2891	2971
35°	2764	2856	2962
40°	2694	2819	2968
45°	2626	2791	2982
50°	2554	2777	3010
55°	2475	2773	3065
60°	2378	2785	3145
65°	2254	2828	3281
70°	2093	2899	3468
75°	1909	3044	3761
80°	1570	3278	3760
85°	1203	3024	3231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.2
10°-20°	604.7	9.1
20°-30°	909.9	13.6
30°-40°	1090.4	16.3
40°-50°	1136.4	17.0
50°-60°	1057.2	15.9
60°-70°	870.8	13.1
70°-80°	593.0	8.9
80°-90°	195.8	2.9
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°	1726.4	25.9
0°-40°	2816.8	42.2
0°-60°	5010.4	75.1
0°-90°	6670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2230	2230	2222	2233	2235	212
15°	2133	2135	2137	2157	2159	601
25°	1941	1950	1970	2004	2010	894
35°	1683	1703	1739	1785	1803	1052
45°	1380	1409	1467	1540	1567	1064
55°	1055	1091	1182	1276	1307	941
65°	708	768	888	993	1031	703
75°	367	450	586	690	724	387
85°	78	151	196	209	209	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.4	2239.4	2239.4	2239.4	2239.4
2.5°	2239.4	2239.4	2228.3	2239.4	2239.4
5°	2230.5	2230.5	2221.6	2232.8	2235.0
7.5°	2214.9	2217.2	2208.3	2221.6	2223.8
10°	2192.7	2194.9	2190.5	2203.8	2206.0
12.5°	2166.0	2168.2	2168.2	2183.8	2186.0
15°	2132.6	2134.8	2137.0	2157.1	2159.3
17.5°	2090.3	2097.0	2101.4	2125.9	2130.4
20°	2045.8	2052.4	2061.3	2088.1	2092.5
22.5°	1994.6	2003.5	2019.0	2048.0	2054.7
25°	1941.1	1950.0	1970.1	2003.5	2010.1
27.5°	1881.0	1894.4	1918.9	1954.5	1963.4
30°	1818.7	1832.1	1861.0	1898.8	1912.2
32.5°	1751.9	1769.7	1803.1	1845.4	1858.8
35°	1682.9	1702.9	1738.6	1785.3	1803.1
37.5°	1609.5	1631.7	1674.0	1725.2	1747.5
40°	1533.8	1560.5	1605.0	1665.1	1689.6
42.5°	1458.1	1482.6	1538.2	1602.8	1629.5
45°	1380.2	1409.1	1467.0	1540.4	1567.2
47.5°	1300.0	1329.0	1398.0	1475.9	1500.4
50°	1219.9	1248.8	1326.7	1409.1	1438.0
52.5°	1133.1	1170.9	1260.0	1342.3	1371.3
55°	1055.2	1090.8	1182.0	1275.5	1306.7
57.5°	966.1	1008.4	1108.6	1206.5	1239.9
60°	883.8	928.3	1035.1	1135.3	1168.7
62.5°	799.2	848.1	961.7	1064.1	1101.9
65°	707.9	768.0	888.2	992.8	1030.7
67.5°	625.5	687.9	814.7	921.6	955.0
70°	532.0	607.7	736.8	843.7	881.5
72.5°	451.9	527.6	663.4	768.0	805.8
75°	367.3	449.7	585.5	690.1	723.5
77.5°	282.7	374.0	509.8	589.9	601.0
80°	202.6	298.3	423.0	469.7	485.3
82.5°	142.5	229.3	311.7	342.8	351.7
85°	77.9	151.4	195.9	209.3	209.3
87.5°	33.4	64.6	77.9	80.1	82.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)