

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: P260912

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260912
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-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6227.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

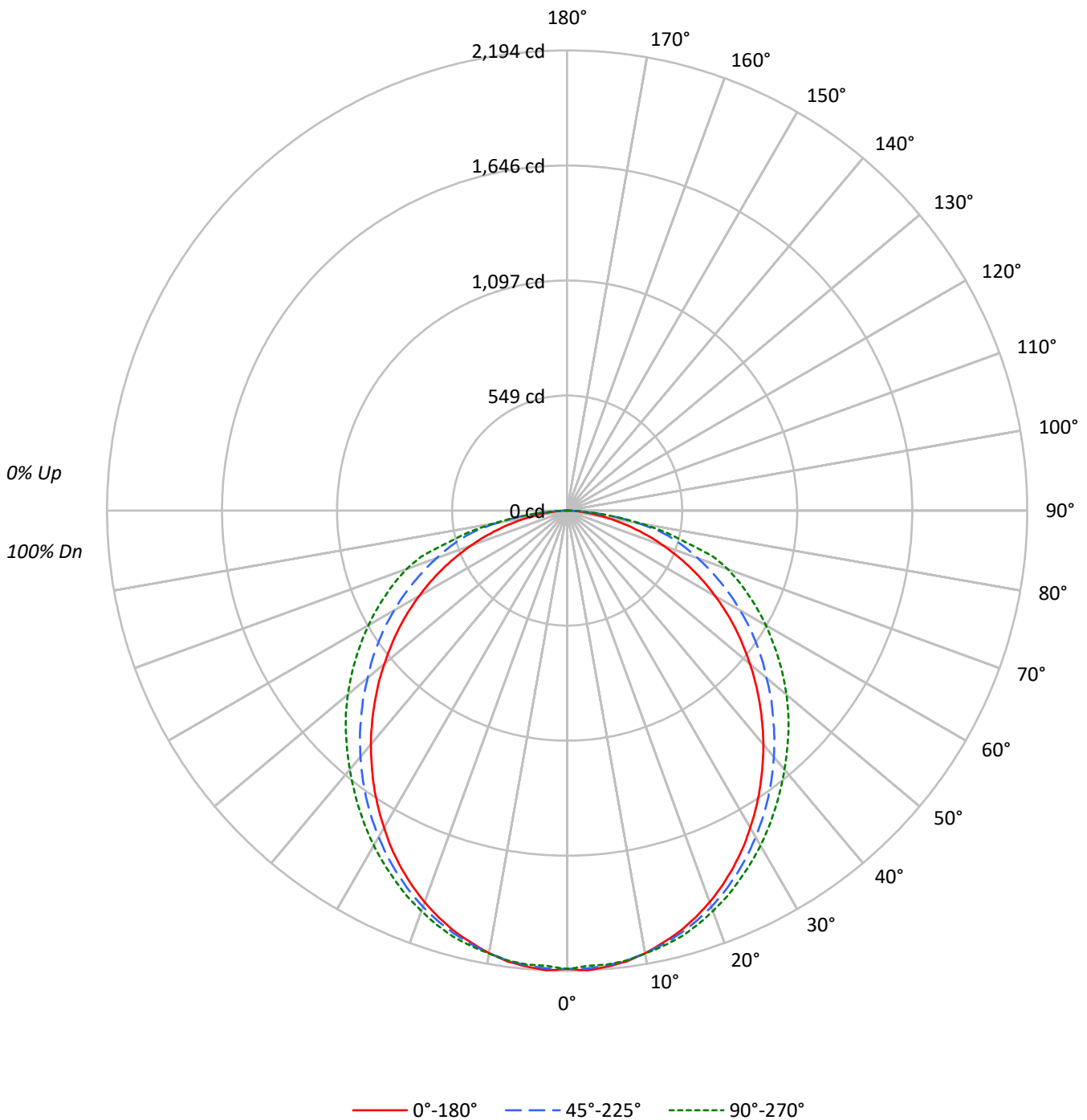
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2940	2940	2940
5°	2949	2940	2934
10°	2927	2927	2930
15°	2893	2908	2928
20°	2845	2879	2909
25°	2785	2839	2887
30°	2713	2792	2865
35°	2637	2746	2844
40°	2558	2692	2831
45°	2471	2641	2840
50°	2383	2597	2856
55°	2296	2581	2886
60°	2192	2565	2943
65°	2077	2566	3041
70°	1921	2609	3204
75°	1718	2727	3048
80°	1437	2610	2792
85°	1087	2008	1910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	3.3
10°-20°	587.8	9.4
20°-30°	878.7	14.1
30°-40°	1042.4	16.7
40°-50°	1072.9	17.2
50°-60°	984.2	15.8
60°-70°	795.8	12.8
70°-80°	516.5	8.3
80°-90°	142.4	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°	1672.9	26.9
0°-40°	2715.3	43.6
0°-60°	4772.3	76.6
0°-90°	6227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2183	2168	2177	2175	2173	207
15°	2077	2068	2087	2096	2102	585
25°	1876	1878	1912	1930	1944	864
35°	1605	1618	1672	1708	1731	1004
45°	1298	1320	1388	1454	1492	1002
55°	979	1008	1100	1190	1230	874
65°	652	691	806	912	955	645
75°	330	392	524	586	586	351
85°	70	119	130	126	124	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.4	2185.4	2185.4	2185.4	2185.4
2.5°	2193.9	2176.8	2185.4	2183.2	2172.6
5°	2183.2	2168.3	2176.8	2174.7	2172.6
7.5°	2168.3	2153.4	2164.0	2161.9	2164.0
10°	2142.7	2129.9	2142.7	2144.8	2144.8
12.5°	2110.7	2100.1	2117.1	2121.4	2125.7
15°	2076.6	2068.1	2087.3	2095.8	2102.2
17.5°	2034.0	2027.6	2051.0	2061.7	2070.2
20°	1987.1	1984.9	2010.5	2021.2	2031.8
22.5°	1933.8	1933.8	1963.6	1976.4	1991.3
25°	1876.2	1878.3	1912.5	1929.5	1944.4
27.5°	1814.4	1816.5	1857.0	1878.3	1895.4
30°	1746.2	1754.7	1797.3	1825.0	1844.2
32.5°	1677.9	1688.6	1735.5	1767.5	1788.8
35°	1605.4	1618.2	1671.5	1707.8	1731.2
37.5°	1530.8	1545.7	1603.3	1643.8	1671.5
40°	1456.2	1473.2	1532.9	1579.9	1611.8
42.5°	1377.3	1396.5	1462.6	1518.0	1552.1
45°	1298.4	1319.7	1388.0	1454.1	1492.4
47.5°	1219.5	1245.1	1317.6	1390.1	1430.6
50°	1138.5	1164.1	1240.9	1324.0	1364.5
52.5°	1057.5	1087.3	1172.6	1257.9	1298.4
55°	978.6	1008.5	1100.1	1189.7	1230.2
57.5°	897.6	927.4	1027.6	1121.5	1162.0
60°	814.4	848.6	953.0	1049.0	1093.7
62.5°	733.4	769.7	880.5	982.9	1025.5
65°	652.4	690.8	805.9	912.5	955.2
67.5°	569.3	614.0	733.4	842.2	886.9
70°	488.2	537.3	663.1	771.8	814.4
72.5°	409.4	462.7	592.7	703.6	729.2
75°	330.5	392.3	524.5	586.3	586.3
77.5°	255.8	324.1	447.7	471.2	484.0
80°	185.5	260.1	336.9	364.6	360.3
82.5°	123.7	198.3	240.9	240.9	234.5
85°	70.4	119.4	130.1	125.8	123.7
87.5°	29.8	44.8	40.5	32.0	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)