

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: P263434

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4315.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

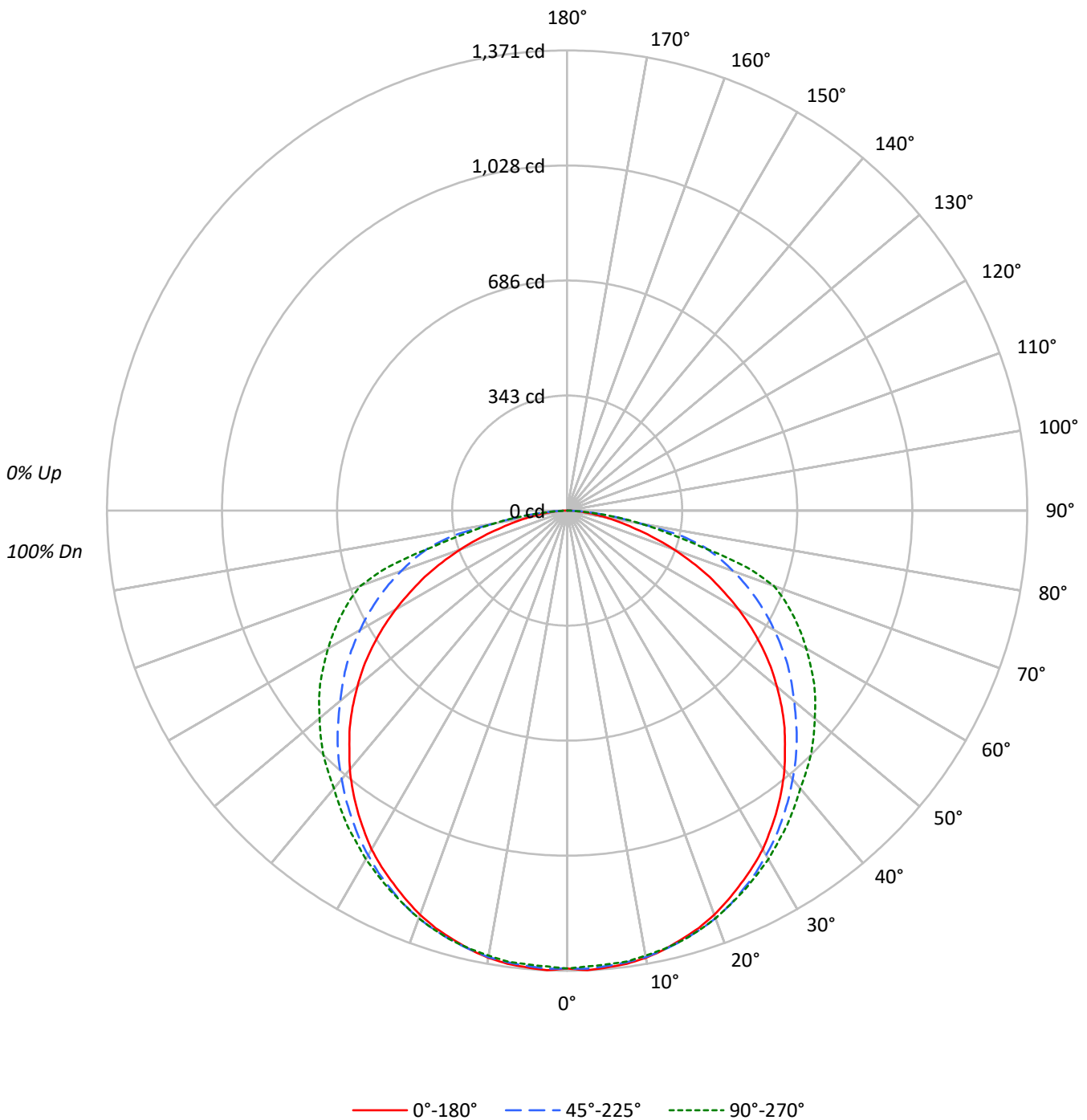
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1835	1835	1835
5°	1845	1839	1833
10°	1848	1845	1839
15°	1841	1847	1847
20°	1835	1851	1851
25°	1820	1846	1853
30°	1811	1842	1863
35°	1790	1838	1878
40°	1769	1836	1899
45°	1743	1841	1955
50°	1708	1847	2016
55°	1663	1882	2107
60°	1589	1919	2213
65°	1490	1980	2370
70°	1333	2069	2578
75°	1101	2213	2132
80°	898	1710	1727
85°	722	1136	1067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	3.0
10°-20°	373.8	8.7
20°-30°	571.3	13.2
30°-40°	698.8	16.2
40°-50°	747.7	17.3
50°-60°	716.0	16.6
60°-70°	605.6	14.0
70°-80°	383.9	8.9
80°-90°	88.3	2.0
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°	1074.7	24.9
0°-40°	1773.5	41.1
0°-60°	3237.1	75.0
0°-90°	4315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1366	1360	1362	1360	1357	130
15°	1322	1320	1326	1326	1326	373
25°	1226	1226	1244	1248	1248	566
35°	1090	1097	1119	1134	1143	682
45°	916	932	967	1007	1028	706
55°	709	731	802	869	898	632
65°	468	513	622	706	744	461
75°	212	299	426	424	410	230
85°	47	71	74	67	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.1	1364.1	1364.1	1364.1	1364.1
2.5°	1370.7	1364.1	1366.3	1364.1	1359.6
5°	1366.3	1359.6	1361.8	1359.6	1357.4
7.5°	1361.8	1355.1	1357.4	1355.1	1355.1
10°	1352.9	1346.2	1350.7	1348.5	1346.2
12.5°	1339.5	1335.1	1339.5	1337.3	1337.3
15°	1321.7	1319.5	1326.2	1326.2	1326.2
17.5°	1303.9	1301.6	1310.6	1310.6	1310.6
20°	1281.6	1279.4	1292.7	1292.7	1292.7
22.5°	1254.8	1252.6	1270.4	1270.4	1270.4
25°	1225.9	1225.9	1243.7	1248.2	1248.2
27.5°	1196.9	1196.9	1216.9	1223.6	1223.6
30°	1165.7	1165.7	1185.7	1194.7	1199.1
32.5°	1127.8	1132.3	1154.5	1165.7	1170.1
35°	1089.9	1096.6	1118.9	1134.5	1143.4
37.5°	1049.8	1056.5	1083.2	1101.0	1112.2
40°	1007.4	1016.4	1045.3	1067.6	1081.0
42.5°	960.6	974.0	1007.4	1036.4	1054.2
45°	916.1	931.7	967.3	1007.4	1027.5
47.5°	867.0	884.9	925.0	976.2	996.3
50°	815.8	833.6	882.6	940.6	962.9
52.5°	764.5	784.6	842.5	904.9	931.7
55°	708.8	731.1	802.4	869.2	898.2
57.5°	650.8	677.6	757.8	829.1	860.3
60°	590.6	624.1	713.2	789.0	822.4
62.5°	528.2	568.4	668.7	748.9	784.6
65°	468.1	512.6	621.8	706.5	744.4
67.5°	403.4	459.1	575.0	666.4	702.1
70°	338.8	403.4	526.0	619.6	655.3
72.5°	274.1	352.2	477.0	561.7	561.7
75°	211.7	298.7	425.7	423.5	410.1
77.5°	160.5	249.6	349.9	298.7	300.9
80°	115.9	200.6	220.7	220.7	222.9
82.5°	78.0	153.8	142.6	140.4	144.9
85°	46.8	71.3	73.6	66.9	69.1
87.5°	22.3	24.5	20.1	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)