

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: P263437

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263437
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430.0 lumens
Efficiency: N/A
Efficacy: 78.9 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

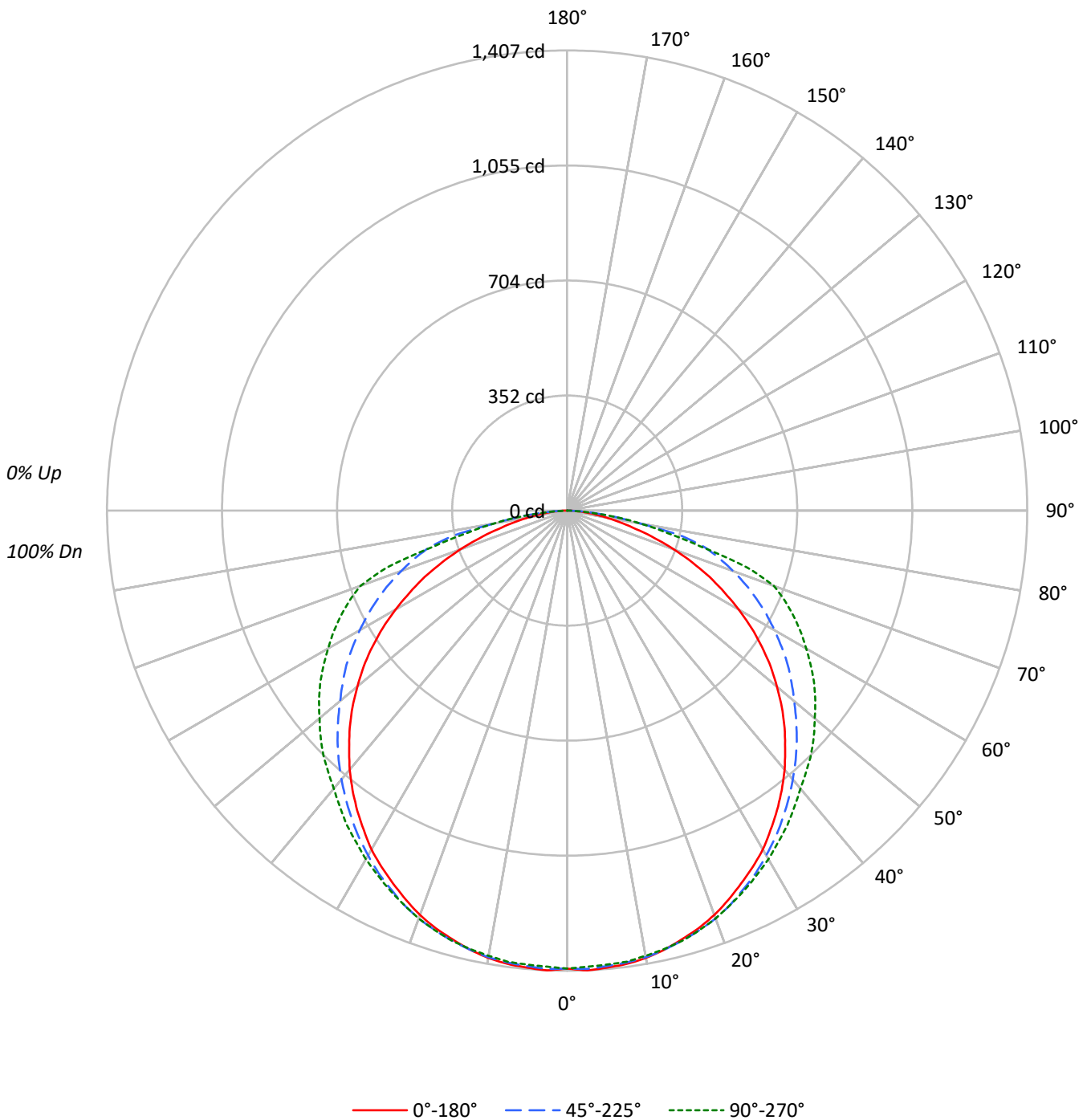
Input Watts (W): 56.172
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1884	1884	1884
5°	1895	1888	1882
10°	1898	1895	1888
15°	1890	1897	1897
20°	1884	1900	1900
25°	1868	1896	1902
30°	1859	1891	1913
35°	1838	1887	1928
40°	1817	1885	1949
45°	1790	1890	2007
50°	1753	1897	2069
55°	1707	1932	2163
60°	1632	1970	2272
65°	1530	2032	2433
70°	1368	2124	2646
75°	1130	2272	2189
80°	922	1755	1773
85°	743	1166	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.0
10°-20°	383.8	8.7
20°-30°	586.6	13.2
30°-40°	717.4	16.2
40°-50°	767.6	17.3
50°-60°	735.0	16.6
60°-70°	621.8	14.0
70°-80°	394.1	8.9
80°-90°	90.7	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°	1103.3	24.9
0°-40°	1820.7	41.1
0°-60°	3323.4	75.0
0°-90°	4430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1403	1396	1398	1396	1394	133
15°	1357	1355	1362	1362	1362	383
25°	1258	1258	1277	1281	1281	581
35°	1119	1126	1149	1165	1174	700
45°	940	956	993	1034	1055	725
55°	728	750	824	892	922	649
65°	480	526	638	725	764	473
75°	217	307	437	435	421	236
85°	48	73	76	69	71	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.4	1400.4	1400.4	1400.4	1400.4
2.5°	1407.3	1400.4	1402.7	1400.4	1395.8
5°	1402.7	1395.8	1398.1	1395.8	1393.5
7.5°	1398.1	1391.3	1393.5	1391.3	1391.3
10°	1389.0	1382.1	1386.7	1384.4	1382.1
12.5°	1375.2	1370.7	1375.2	1372.9	1372.9
15°	1356.9	1354.6	1361.5	1361.5	1361.5
17.5°	1338.6	1336.3	1345.5	1345.5	1345.5
20°	1315.7	1313.5	1327.2	1327.2	1327.2
22.5°	1288.3	1286.0	1304.3	1304.3	1304.3
25°	1258.5	1258.5	1276.8	1281.4	1281.4
27.5°	1228.8	1228.8	1249.4	1256.2	1256.2
30°	1196.8	1196.8	1217.3	1226.5	1231.1
32.5°	1157.9	1162.4	1185.3	1196.8	1201.3
35°	1119.0	1125.8	1148.7	1164.7	1173.9
37.5°	1077.8	1084.6	1112.1	1130.4	1141.8
40°	1034.3	1043.4	1073.2	1096.1	1109.8
42.5°	986.2	1000.0	1034.3	1064.0	1082.3
45°	940.5	956.5	993.1	1034.3	1054.9
47.5°	890.1	908.4	949.6	1002.3	1022.8
50°	837.5	855.8	906.1	965.6	988.5
52.5°	784.9	805.5	865.0	929.0	956.5
55°	727.7	750.5	823.8	892.4	922.2
57.5°	668.2	695.6	778.0	851.2	883.3
60°	606.4	640.7	732.2	810.0	844.4
62.5°	542.3	583.5	686.5	768.9	805.5
65°	480.5	526.3	638.4	725.4	764.3
67.5°	414.2	471.4	590.4	684.2	720.8
70°	347.8	414.2	540.0	636.1	672.7
72.5°	281.5	361.5	489.7	576.6	576.6
75°	217.4	306.6	437.1	434.8	421.0
77.5°	164.8	256.3	359.3	306.6	308.9
80°	119.0	205.9	226.5	226.5	228.8
82.5°	80.1	157.9	146.4	144.2	148.7
85°	48.1	73.2	75.5	68.6	70.9
87.5°	22.9	25.2	20.6	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)