

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: P263301

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263301
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-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4866.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

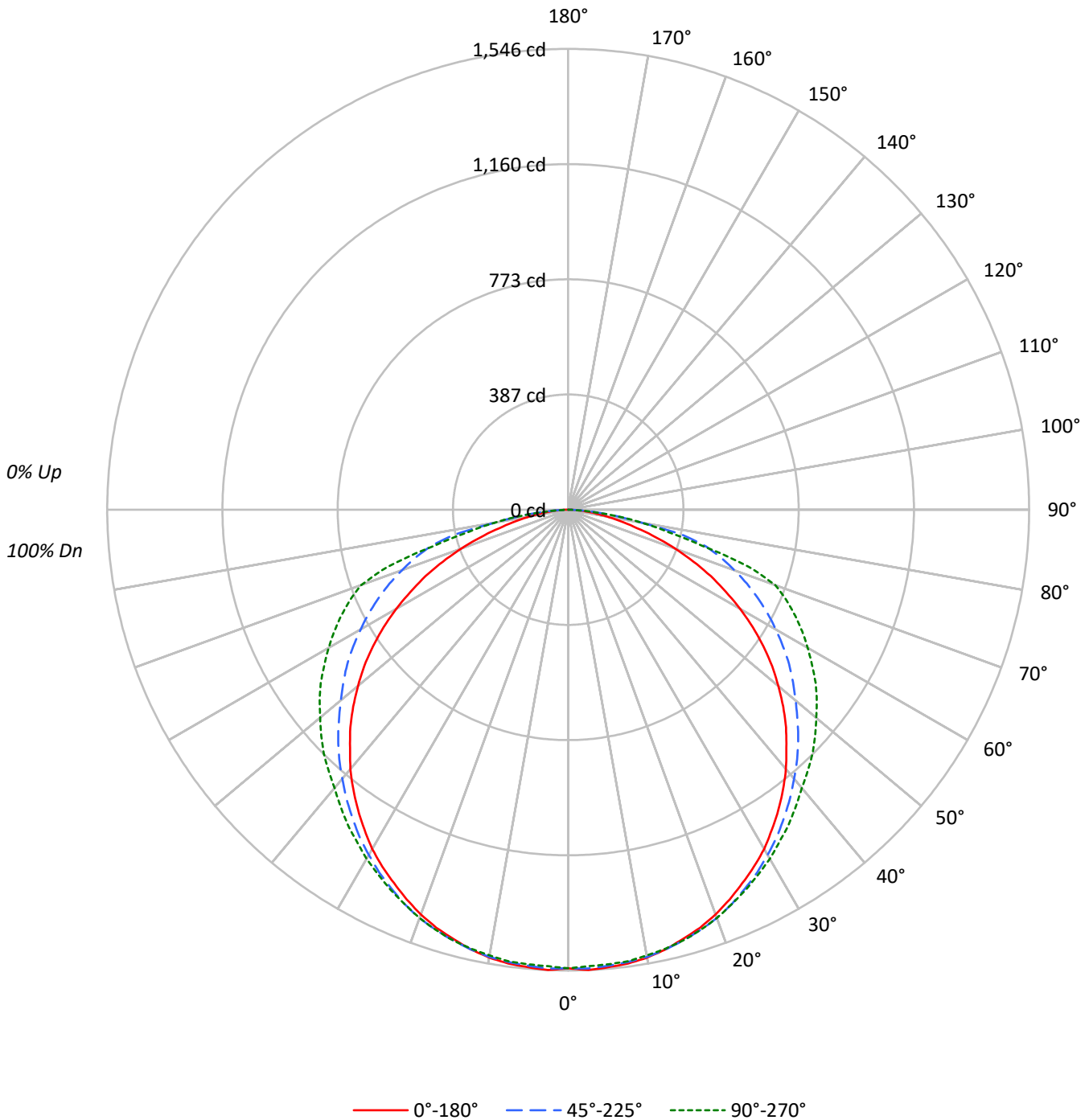
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2070	2070	2070
5°	2081	2074	2067
10°	2084	2081	2074
15°	2076	2083	2083
20°	2069	2087	2087
25°	2052	2082	2090
30°	2042	2078	2101
35°	2019	2073	2118
40°	1995	2070	2141
45°	1966	2076	2205
50°	1926	2083	2273
55°	1875	2122	2376
60°	1792	2164	2496
65°	1680	2233	2673
70°	1503	2334	2907
75°	1241	2496	2404
80°	1013	1928	1947
85°	815	1280	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.0
10°-20°	421.6	8.7
20°-30°	644.3	13.2
30°-40°	788.0	16.2
40°-50°	843.2	17.3
50°-60°	807.4	16.6
60°-70°	683.0	14.0
70°-80°	432.9	8.9
80°-90°	99.6	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°	1211.9	24.9
0°-40°	1999.9	41.1
0°-60°	3650.5	75.0
0°-90°	4866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1541	1533	1536	1533	1531	147
15°	1490	1488	1496	1496	1496	421
25°	1382	1382	1402	1408	1408	638
35°	1229	1237	1262	1279	1289	769
45°	1033	1051	1091	1136	1159	796
55°	799	824	905	980	1013	713
65°	528	578	701	797	840	520
75°	239	337	480	478	462	260
85°	53	80	83	75	78	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.2	1538.2	1538.2	1538.2	1538.2
2.5°	1545.8	1538.2	1540.7	1538.2	1533.2
5°	1540.7	1533.2	1535.7	1533.2	1530.7
7.5°	1535.7	1528.2	1530.7	1528.2	1528.2
10°	1525.7	1518.1	1523.2	1520.6	1518.1
12.5°	1510.6	1505.6	1510.6	1508.1	1508.1
15°	1490.5	1488.0	1495.5	1495.5	1495.5
17.5°	1470.4	1467.9	1477.9	1477.9	1477.9
20°	1445.2	1442.7	1457.8	1457.8	1457.8
22.5°	1415.1	1412.6	1432.7	1432.7	1432.7
25°	1382.4	1382.4	1402.5	1407.5	1407.5
27.5°	1349.7	1349.7	1372.3	1379.9	1379.9
30°	1314.5	1314.5	1337.2	1347.2	1352.2
32.5°	1271.8	1276.8	1302.0	1314.5	1319.6
35°	1229.1	1236.6	1261.8	1279.3	1289.4
37.5°	1183.8	1191.4	1221.5	1241.6	1254.2
40°	1136.1	1146.1	1178.8	1203.9	1219.0
42.5°	1083.3	1098.4	1136.1	1168.8	1188.9
45°	1033.0	1050.6	1090.8	1136.1	1158.7
47.5°	977.7	997.8	1043.1	1100.9	1123.5
50°	919.9	940.0	995.3	1060.7	1085.8
52.5°	862.1	884.7	950.1	1020.5	1050.6
55°	799.3	824.4	904.8	980.2	1012.9
57.5°	733.9	764.1	854.6	935.0	970.2
60°	666.1	703.8	804.3	889.8	927.5
62.5°	595.7	640.9	754.0	844.5	884.7
65°	527.8	578.1	701.3	796.8	839.5
67.5°	454.9	517.8	648.5	751.5	791.7
70°	382.0	454.9	593.2	698.7	739.0
72.5°	309.2	397.1	537.9	633.4	633.4
75°	238.8	336.8	480.1	477.6	462.5
77.5°	181.0	281.5	394.6	336.8	339.3
80°	130.7	226.2	248.8	248.8	251.3
82.5°	88.0	173.4	160.9	158.3	163.4
85°	52.8	80.4	82.9	75.4	77.9
87.5°	25.1	27.6	22.6	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)