

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: P263282

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263282
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-LD5-60-SQP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4152.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

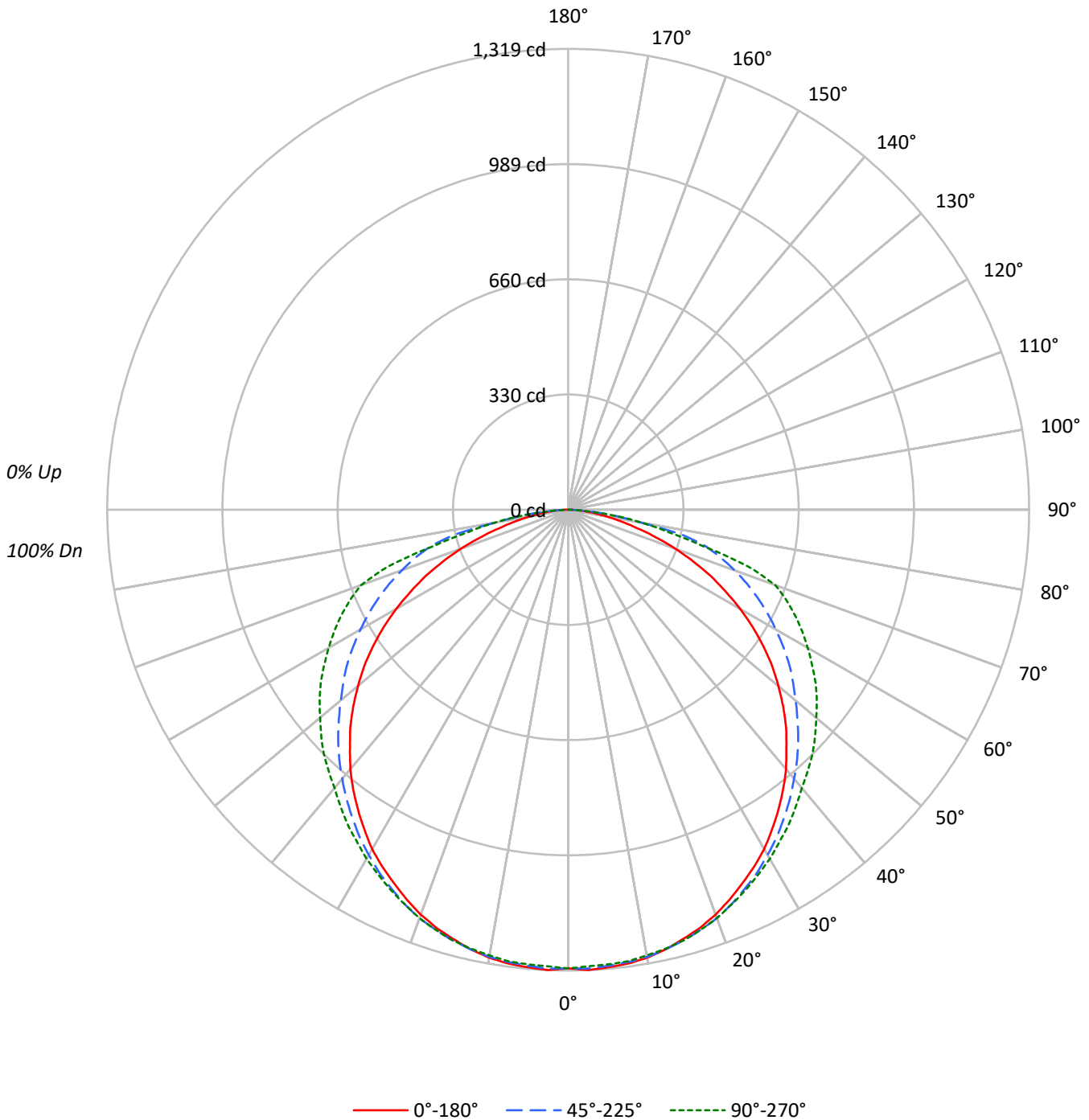
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1766	1766	1766
5°	1776	1770	1764
10°	1779	1776	1770
15°	1772	1778	1778
20°	1766	1781	1781
25°	1751	1777	1783
30°	1743	1773	1793
35°	1723	1768	1807
40°	1703	1767	1827
45°	1677	1771	1881
50°	1643	1778	1939
55°	1600	1811	2027
60°	1529	1847	2130
65°	1434	1905	2280
70°	1282	1991	2480
75°	1059	2129	2051
80°	864	1645	1662
85°	695	1093	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.0
10°-20°	359.7	8.7
20°-30°	549.8	13.2
30°-40°	672.4	16.2
40°-50°	719.4	17.3
50°-60°	688.9	16.6
60°-70°	582.8	14.0
70°-80°	369.4	8.9
80°-90°	85.0	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°	1034.1	24.9
0°-40°	1706.5	41.1
0°-60°	3114.8	75.0
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1315	1308	1310	1308	1306	125
15°	1272	1270	1276	1276	1276	359
25°	1180	1180	1197	1201	1201	544
35°	1049	1055	1077	1092	1100	656
45°	882	896	931	969	989	679
55°	682	703	772	836	864	608
65°	450	493	598	680	716	444
75°	204	287	410	408	395	221
85°	45	69	71	64	66	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.5	1312.5	1312.5	1312.5	1312.5
2.5°	1319.0	1312.5	1314.7	1312.5	1308.2
5°	1314.7	1308.2	1310.4	1308.2	1306.1
7.5°	1310.4	1303.9	1306.1	1303.9	1303.9
10°	1301.8	1295.4	1299.7	1297.5	1295.4
12.5°	1288.9	1284.6	1288.9	1286.8	1286.8
15°	1271.8	1269.6	1276.1	1276.1	1276.1
17.5°	1254.6	1252.5	1261.1	1261.1	1261.1
20°	1233.2	1231.0	1243.9	1243.9	1243.9
22.5°	1207.4	1205.3	1222.4	1222.4	1222.4
25°	1179.6	1179.6	1196.7	1201.0	1201.0
27.5°	1151.7	1151.7	1171.0	1177.4	1177.4
30°	1121.7	1121.7	1141.0	1149.5	1153.8
32.5°	1085.2	1089.5	1110.9	1121.7	1125.9
35°	1048.7	1055.2	1076.6	1091.6	1100.2
37.5°	1010.1	1016.6	1042.3	1059.5	1070.2
40°	969.4	978.0	1005.8	1027.3	1040.2
42.5°	924.3	937.2	969.4	997.3	1014.4
45°	881.5	896.5	930.8	969.4	988.7
47.5°	834.3	851.4	890.0	939.4	958.7
50°	784.9	802.1	849.3	905.0	926.5
52.5°	735.6	754.9	810.7	870.7	896.5
55°	682.0	703.4	772.1	836.4	864.3
57.5°	626.2	652.0	729.2	797.8	827.8
60°	568.3	600.5	686.3	759.2	791.4
62.5°	508.3	546.9	643.4	720.6	754.9
65°	450.4	493.3	598.4	679.9	716.3
67.5°	388.2	441.8	553.3	641.2	675.6
70°	326.0	388.2	506.1	596.2	630.5
72.5°	263.8	338.9	459.0	540.5	540.5
75°	203.7	287.4	409.6	407.5	394.6
77.5°	154.4	240.2	336.7	287.4	289.5
80°	111.5	193.0	212.3	212.3	214.5
82.5°	75.1	148.0	137.3	135.1	139.4
85°	45.0	68.6	70.8	64.3	66.5
87.5°	21.4	23.6	19.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)