

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: P263280

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263280
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4057.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

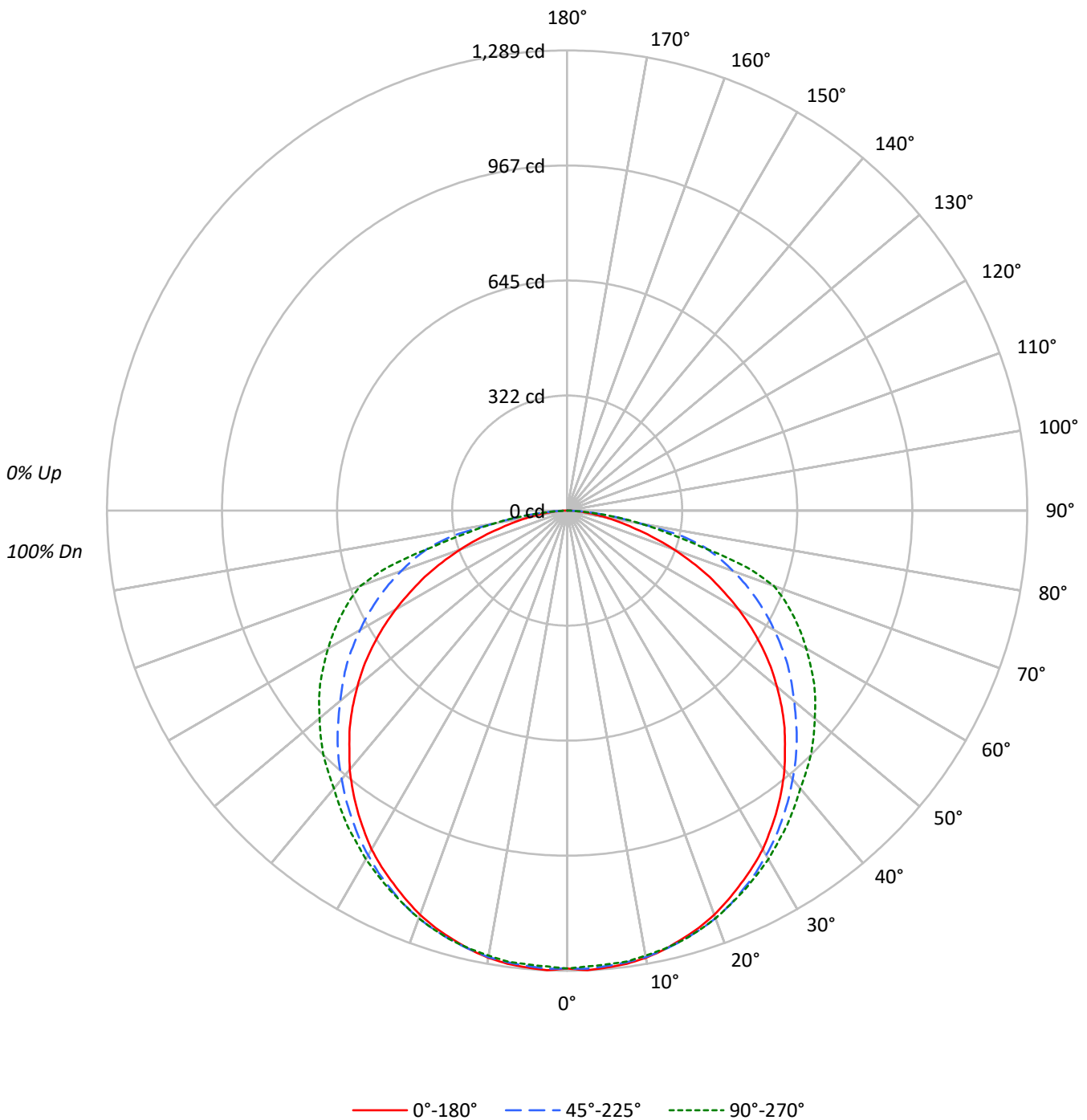
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1735	1729	1724
10°	1738	1735	1729
15°	1731	1737	1737
20°	1725	1740	1740
25°	1711	1736	1742
30°	1703	1732	1752
35°	1683	1728	1766
40°	1664	1726	1785
45°	1639	1731	1838
50°	1605	1737	1895
55°	1563	1770	1981
60°	1494	1805	2081
65°	1401	1862	2228
70°	1253	1946	2424
75°	1035	2081	2005
80°	845	1608	1624
85°	679	1068	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.0
10°-20°	351.5	8.7
20°-30°	537.2	13.2
30°-40°	657.0	16.2
40°-50°	703.0	17.3
50°-60°	673.1	16.6
60°-70°	569.4	14.0
70°-80°	361.0	8.9
80°-90°	83.1	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°	1010.4	24.9
0°-40°	1667.4	41.1
0°-60°	3043.6	75.0
0°-90°	4057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1285	1278	1280	1278	1276	122
15°	1243	1241	1247	1247	1247	351
25°	1153	1153	1169	1174	1174	532
35°	1025	1031	1052	1067	1075	641
45°	861	876	910	947	966	664
55°	666	687	754	817	844	594
65°	440	482	585	664	700	434
75°	199	281	400	398	386	216
85°	44	67	69	63	65	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1288.8	1282.5	1284.6	1282.5	1278.3
5°	1284.6	1278.3	1280.4	1278.3	1276.2
7.5°	1280.4	1274.1	1276.2	1274.1	1274.1
10°	1272.0	1265.7	1269.9	1267.8	1265.7
12.5°	1259.4	1255.3	1259.4	1257.3	1257.3
15°	1242.7	1240.6	1246.9	1246.9	1246.9
17.5°	1225.9	1223.8	1232.2	1232.2	1232.2
20°	1205.0	1202.9	1215.4	1215.4	1215.4
22.5°	1179.8	1177.7	1194.5	1194.5	1194.5
25°	1152.6	1152.6	1169.3	1173.5	1173.5
27.5°	1125.3	1125.3	1144.2	1150.5	1150.5
30°	1096.0	1096.0	1114.8	1123.2	1127.4
32.5°	1060.4	1064.6	1085.5	1096.0	1100.2
35°	1024.7	1031.0	1052.0	1066.6	1075.0
37.5°	987.0	993.3	1018.5	1035.2	1045.7
40°	947.2	955.6	982.8	1003.8	1016.4
42.5°	903.2	915.8	947.2	974.4	991.2
45°	861.3	876.0	909.5	947.2	966.1
47.5°	815.2	831.9	869.7	917.9	936.7
50°	767.0	783.7	829.8	884.3	905.3
52.5°	718.8	737.6	792.1	850.8	876.0
55°	666.4	687.3	754.4	817.3	844.5
57.5°	611.9	637.1	712.5	779.6	808.9
60°	555.3	586.8	670.6	741.8	773.3
62.5°	496.7	534.4	628.7	704.1	737.6
65°	440.1	482.0	584.7	664.3	699.9
67.5°	379.3	431.7	540.7	626.6	660.1
70°	318.5	379.3	494.6	582.6	616.1
72.5°	257.8	331.1	448.5	528.1	528.1
75°	199.1	280.8	400.3	398.2	385.6
77.5°	150.9	234.7	329.0	280.8	282.9
80°	109.0	188.6	207.5	207.5	209.6
82.5°	73.3	144.6	134.1	132.0	136.2
85°	44.0	67.1	69.2	62.9	65.0
87.5°	21.0	23.1	18.9	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)