

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: P263283

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263283
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-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: 4163.0 lumens
Efficiency: N/A
Efficacy: 91.5 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

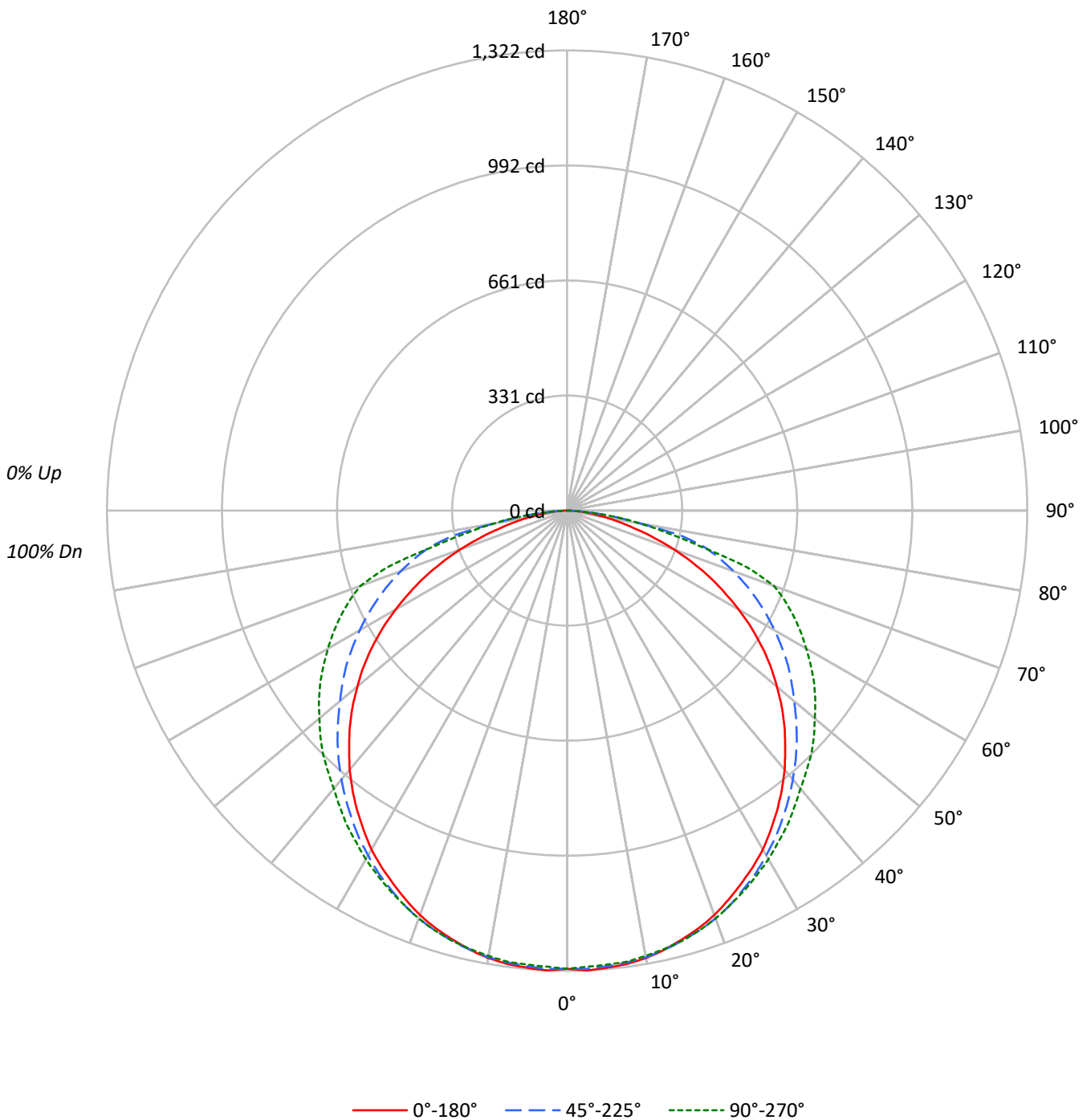
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1771	1771	1771
5°	1780	1775	1769
10°	1783	1780	1774
15°	1776	1782	1782
20°	1770	1786	1786
25°	1756	1781	1788
30°	1747	1777	1797
35°	1727	1773	1812
40°	1707	1771	1832
45°	1682	1776	1886
50°	1647	1782	1944
55°	1604	1816	2033
60°	1533	1852	2135
65°	1438	1910	2287
70°	1286	1996	2487
75°	1062	2135	2057
80°	866	1650	1666
85°	698	1096	1030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.0
10°-20°	360.7	8.7
20°-30°	551.2	13.2
30°-40°	674.2	16.2
40°-50°	721.3	17.3
50°-60°	690.7	16.6
60°-70°	584.3	14.0
70°-80°	370.4	8.9
80°-90°	85.2	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°	1036.9	24.9
0°-40°	1711.0	41.1
0°-60°	3123.1	75.0
0°-90°	4163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1318	1312	1314	1312	1310	125
15°	1275	1273	1279	1279	1279	360
25°	1183	1183	1200	1204	1204	546
35°	1052	1058	1080	1094	1103	658
45°	884	899	933	972	991	681
55°	684	705	774	839	867	610
65°	452	495	600	682	718	445
75°	204	288	411	409	396	222
85°	45	69	71	64	67	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1322.5	1316.0	1318.2	1316.0	1311.7
5°	1318.2	1311.7	1313.9	1311.7	1309.6
7.5°	1313.9	1307.4	1309.6	1307.4	1307.4
10°	1305.3	1298.8	1303.1	1300.9	1298.8
12.5°	1292.3	1288.0	1292.3	1290.2	1290.2
15°	1275.1	1273.0	1279.4	1279.4	1279.4
17.5°	1257.9	1255.8	1264.4	1264.4	1264.4
20°	1236.4	1234.3	1247.2	1247.2	1247.2
22.5°	1210.6	1208.5	1225.7	1225.7	1225.7
25°	1182.7	1182.7	1199.9	1204.2	1204.2
27.5°	1154.7	1154.7	1174.1	1180.5	1180.5
30°	1124.6	1124.6	1144.0	1152.6	1156.9
32.5°	1088.1	1092.4	1113.9	1124.6	1128.9
35°	1051.5	1058.0	1079.5	1094.5	1103.1
37.5°	1012.8	1019.3	1045.1	1062.3	1073.0
40°	971.9	980.6	1008.5	1030.0	1042.9
42.5°	926.8	939.7	971.9	999.9	1017.1
45°	883.8	898.8	933.2	971.9	991.3
47.5°	836.5	853.7	892.4	941.8	961.2
50°	787.0	804.2	851.5	907.4	928.9
52.5°	737.6	756.9	812.8	873.0	898.8
55°	683.8	705.3	774.1	838.6	866.6
57.5°	627.9	653.7	731.1	799.9	830.0
60°	569.8	602.1	688.1	761.2	793.5
62.5°	509.6	548.3	645.1	722.5	756.9
65°	451.6	494.6	599.9	681.7	718.2
67.5°	389.2	443.0	554.8	642.9	677.4
70°	326.9	389.2	507.5	597.8	632.2
72.5°	264.5	339.8	460.2	541.9	541.9
75°	204.3	288.1	410.7	408.6	395.7
77.5°	154.8	240.8	337.6	288.1	290.3
80°	111.8	193.5	212.9	212.9	215.0
82.5°	75.3	148.4	137.6	135.5	139.8
85°	45.2	68.8	71.0	64.5	66.7
87.5°	21.5	23.7	19.4	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)