

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: P263439

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263439
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-LD5-75-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.0 lumens
Efficiency: N/A
Efficacy: 70.3 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

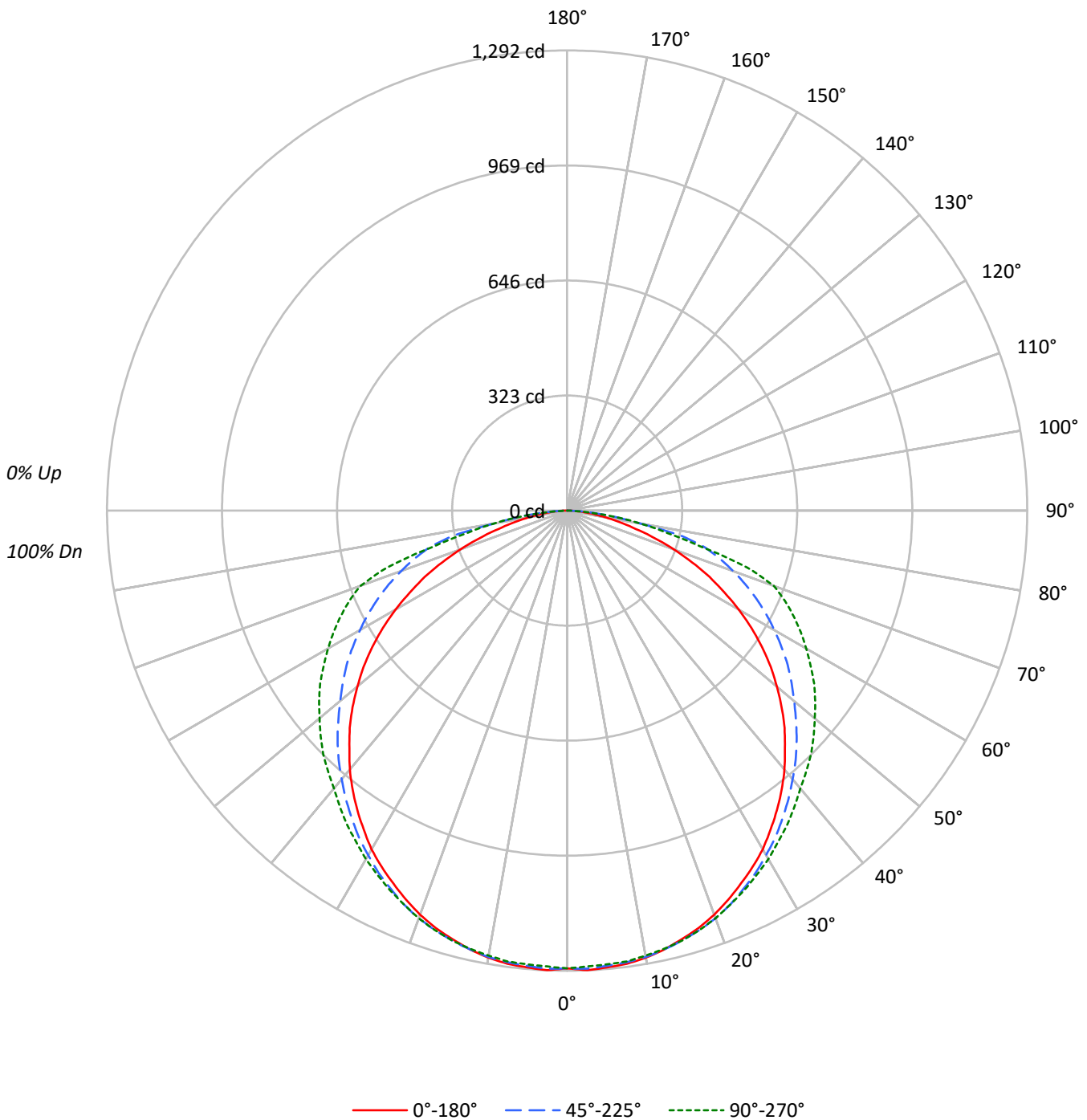
Input Watts (W): 57.846
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1729	1729	1729
5°	1739	1733	1727
10°	1742	1739	1733
15°	1735	1741	1741
20°	1729	1744	1744
25°	1715	1740	1746
30°	1707	1736	1755
35°	1687	1732	1770
40°	1667	1730	1789
45°	1643	1734	1842
50°	1609	1741	1899
55°	1567	1774	1985
60°	1498	1809	2086
65°	1404	1866	2233
70°	1256	1950	2429
75°	1037	2085	2009
80°	846	1611	1627
85°	681	1070	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.0
10°-20°	352.2	8.7
20°-30°	538.4	13.2
30°-40°	658.4	16.2
40°-50°	704.5	17.3
50°-60°	674.7	16.6
60°-70°	570.7	14.0
70°-80°	361.7	8.9
80°-90°	83.2	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°	1012.7	24.9
0°-40°	1671.1	41.1
0°-60°	3050.3	75.0
0°-90°	4066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1287	1281	1283	1281	1279	123
15°	1245	1243	1250	1250	1250	352
25°	1155	1155	1172	1176	1176	533
35°	1027	1033	1054	1069	1077	643
45°	863	878	912	949	968	665
55°	668	689	756	819	846	596
65°	441	483	586	666	702	434
75°	200	281	401	399	386	217
85°	44	67	69	63	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1291.6	1285.3	1287.4	1285.3	1281.1
5°	1287.4	1281.1	1283.2	1281.1	1279.0
7.5°	1283.2	1276.9	1279.0	1276.9	1276.9
10°	1274.8	1268.5	1272.7	1270.6	1268.5
12.5°	1262.2	1258.0	1262.2	1260.1	1260.1
15°	1245.4	1243.3	1249.6	1249.6	1249.6
17.5°	1228.6	1226.5	1234.9	1234.9	1234.9
20°	1207.6	1205.5	1218.1	1218.1	1218.1
22.5°	1182.4	1180.3	1197.1	1197.1	1197.1
25°	1155.1	1155.1	1171.9	1176.1	1176.1
27.5°	1127.8	1127.8	1146.7	1153.0	1153.0
30°	1098.4	1098.4	1117.3	1125.7	1129.9
32.5°	1062.7	1066.9	1087.9	1098.4	1102.6
35°	1027.0	1033.3	1054.3	1069.0	1077.4
37.5°	989.2	995.5	1020.7	1037.5	1048.0
40°	949.3	957.7	985.0	1006.0	1018.6
42.5°	905.2	917.8	949.3	976.6	993.4
45°	863.2	877.9	911.5	949.3	968.2
47.5°	817.0	833.8	871.6	919.9	938.8
50°	768.7	785.5	831.7	886.3	907.3
52.5°	720.4	739.3	793.9	852.7	877.9
55°	667.9	688.9	756.1	819.1	846.4
57.5°	613.3	638.5	714.1	781.3	810.7
60°	556.6	588.1	672.1	743.5	775.0
62.5°	497.8	535.6	630.1	705.7	739.3
65°	441.0	483.1	586.0	665.8	701.5
67.5°	380.1	432.6	541.9	628.0	661.6
70°	319.2	380.1	495.7	583.9	617.5
72.5°	258.3	331.8	449.4	529.3	529.3
75°	199.5	281.4	401.1	399.0	386.4
77.5°	151.2	235.2	329.7	281.4	283.5
80°	109.2	189.0	207.9	207.9	210.0
82.5°	73.5	144.9	134.4	132.3	136.5
85°	44.1	67.2	69.3	63.0	65.1
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)