

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: P263185

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263185
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-LD5-65-SQP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041.2 lumens
Efficiency: N/A
Efficacy: 79.3 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

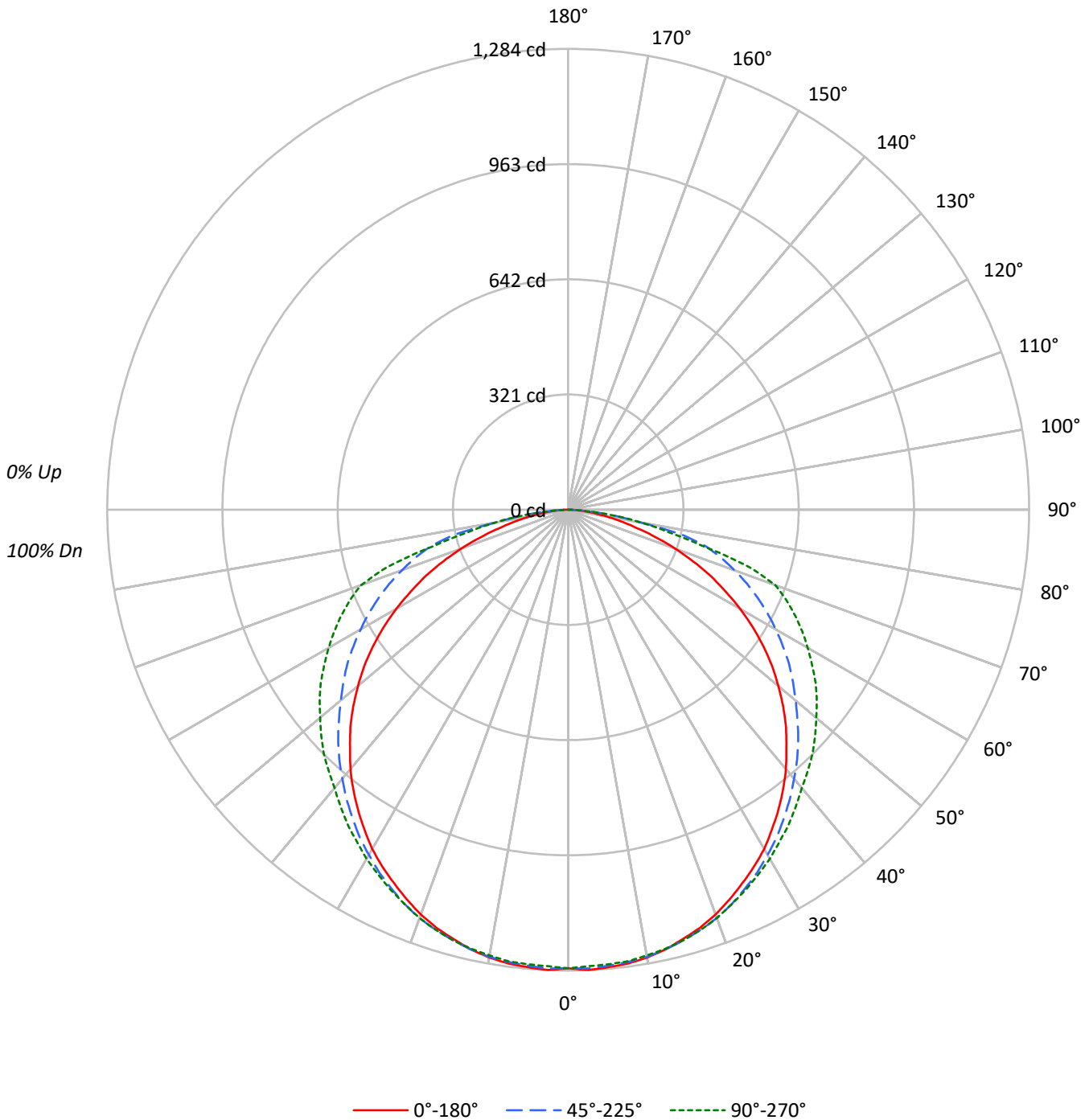
Input Watts (W): 50.972556
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1719	1719	1719
5°	1728	1723	1717
10°	1731	1728	1723
15°	1724	1730	1730
20°	1719	1734	1734
25°	1704	1729	1735
30°	1696	1725	1745
35°	1677	1721	1759
40°	1657	1720	1778
45°	1632	1724	1831
50°	1599	1730	1888
55°	1557	1763	1973
60°	1489	1798	2073
65°	1396	1854	2220
70°	1248	1938	2414
75°	1031	2073	1997
80°	841	1602	1617
85°	676	1064	999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.0
10°-20°	350.1	8.7
20°-30°	535.1	13.2
30°-40°	654.4	16.2
40°-50°	700.2	17.3
50°-60°	670.5	16.6
60°-70°	567.2	14.0
70°-80°	359.5	8.9
80°-90°	82.7	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°	1006.5	24.9
0°-40°	1661.0	41.1
0°-60°	3031.8	75.0
0°-90°	4041.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1280	1273	1275	1273	1271	122
15°	1238	1236	1242	1242	1242	350
25°	1148	1148	1165	1169	1169	530
35°	1021	1027	1048	1062	1071	639
45°	858	873	906	944	962	661
55°	664	685	752	814	841	592
65°	438	480	582	662	697	432
75°	198	280	399	397	384	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°	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1283.8	1277.5	1279.6	1277.5	1273.3
5°	1279.6	1273.3	1275.4	1273.3	1271.3
7.5°	1275.4	1269.2	1271.3	1269.2	1269.2
10°	1267.1	1260.8	1265.0	1262.9	1260.8
12.5°	1254.6	1250.4	1254.6	1252.5	1252.5
15°	1237.9	1235.8	1242.0	1242.0	1242.0
17.5°	1221.2	1219.1	1227.4	1227.4	1227.4
20°	1200.3	1198.2	1210.7	1210.7	1210.7
22.5°	1175.2	1173.1	1189.8	1189.8	1189.8
25°	1148.1	1148.1	1164.8	1169.0	1169.0
27.5°	1121.0	1121.0	1139.7	1146.0	1146.0
30°	1091.7	1091.7	1110.5	1118.9	1123.0
32.5°	1056.2	1060.4	1081.3	1091.7	1095.9
35°	1020.8	1027.0	1047.9	1062.5	1070.9
37.5°	983.2	989.5	1014.5	1031.2	1041.6
40°	943.5	951.9	979.0	999.9	1012.4
42.5°	899.7	912.2	943.5	970.7	987.4
45°	857.9	872.6	906.0	943.5	962.3
47.5°	812.0	828.7	866.3	914.3	933.1
50°	764.0	780.7	826.6	880.9	901.8
52.5°	716.0	734.8	789.1	847.5	872.6
55°	663.8	684.7	751.5	814.1	841.2
57.5°	609.5	634.6	709.7	776.5	805.8
60°	553.2	584.5	668.0	739.0	770.3
62.5°	494.7	532.3	626.2	701.4	734.8
65°	438.4	480.1	582.4	661.7	697.2
67.5°	377.8	430.0	538.6	624.1	657.5
70°	317.3	377.8	492.6	580.3	613.7
72.5°	256.8	329.8	446.7	526.0	526.0
75°	198.3	279.7	398.7	396.6	384.1
77.5°	150.3	233.8	327.7	279.7	281.8
80°	108.5	187.9	206.7	206.7	208.7
82.5°	73.1	144.0	133.6	131.5	135.7
85°	43.8	66.8	68.9	62.6	64.7
87.5°	20.9	23.0	18.8	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)