

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: P263087

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263087
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-LD5-45-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2806.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

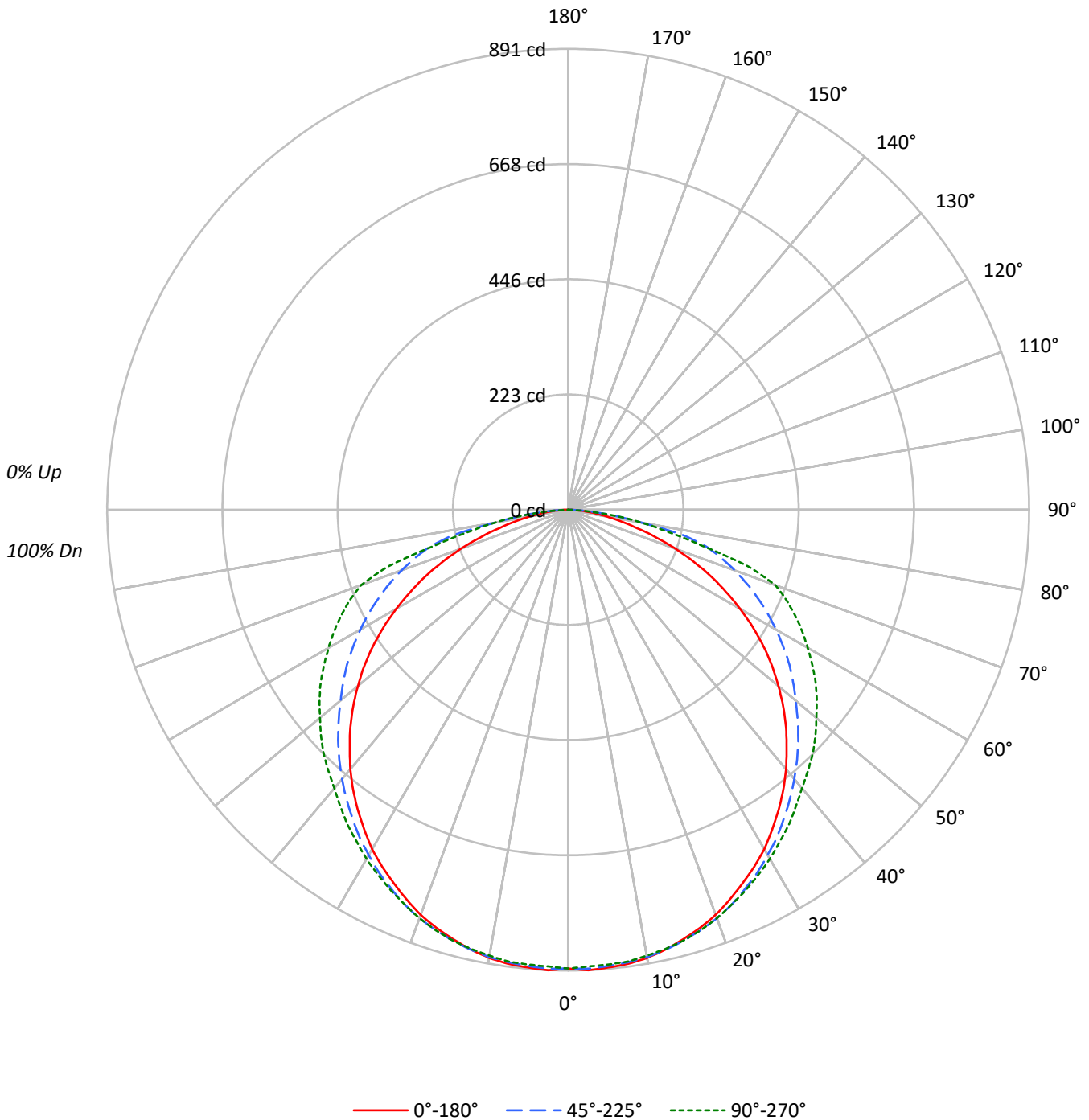
Input Watts (W): 31.371132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1193	1193	1193
5°	1200	1196	1192
10°	1202	1200	1196
15°	1197	1201	1201
20°	1193	1204	1204
25°	1184	1201	1205
30°	1178	1198	1212
35°	1164	1195	1221
40°	1151	1194	1235
45°	1134	1197	1271
50°	1110	1202	1311
55°	1081	1224	1370
60°	1034	1248	1439
65°	969	1287	1541
70°	867	1346	1676
75°	716	1439	1386
80°	584	1112	1123
85°	469	738	693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	243.1	8.7
20°-30°	371.5	13.2
30°-40°	454.4	16.2
40°-50°	486.2	17.3
50°-60°	465.6	16.6
60°-70°	393.9	14.0
70°-80°	249.6	8.9
80°-90°	57.4	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°	698.9	24.9
0°-40°	1153.3	41.1
0°-60°	2105.1	75.0
0°-90°	2806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	888	884	886	884	883	85
15°	860	858	862	862	862	243
25°	797	797	809	812	812	368
35°	709	713	728	738	744	443
45°	596	606	629	655	668	459
55°	461	475	522	565	584	411
65°	304	333	404	460	484	300
75°	138	194	277	275	267	150
85°	30	46	48	44	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.0	887.0	887.0	887.0	887.0
2.5°	891.4	887.0	888.5	887.0	884.1
5°	888.5	884.1	885.6	884.1	882.7
7.5°	885.6	881.2	882.7	881.2	881.2
10°	879.8	875.4	878.3	876.9	875.4
12.5°	871.1	868.2	871.1	869.6	869.6
15°	859.5	858.0	862.4	862.4	862.4
17.5°	847.9	846.4	852.2	852.2	852.2
20°	833.4	832.0	840.6	840.6	840.6
22.5°	816.0	814.6	826.2	826.2	826.2
25°	797.2	797.2	808.8	811.7	811.7
27.5°	778.3	778.3	791.4	795.7	795.7
30°	758.0	758.0	771.1	776.9	779.8
32.5°	733.4	736.3	750.8	758.0	760.9
35°	708.8	713.1	727.6	737.7	743.5
37.5°	682.7	687.0	704.4	716.0	723.2
40°	655.1	660.9	679.8	694.3	703.0
42.5°	624.7	633.4	655.1	674.0	685.6
45°	595.7	605.8	629.0	655.1	668.2
47.5°	563.8	575.4	601.5	634.8	647.9
50°	530.5	542.1	574.0	611.6	626.1
52.5°	497.1	510.2	547.9	588.5	605.8
55°	460.9	475.4	521.8	565.3	584.1
57.5°	423.2	440.6	492.8	539.2	559.5
60°	384.1	405.8	463.8	513.1	534.8
62.5°	343.5	369.6	434.8	487.0	510.2
65°	304.4	333.4	404.4	459.5	484.1
67.5°	262.3	298.6	373.9	433.4	456.6
70°	220.3	262.3	342.1	402.9	426.1
72.5°	178.3	229.0	310.2	365.2	365.2
75°	137.7	194.2	276.8	275.4	266.7
77.5°	104.4	162.3	227.6	194.2	195.7
80°	75.4	130.4	143.5	143.5	144.9
82.5°	50.7	100.0	92.8	91.3	94.2
85°	30.4	46.4	47.8	43.5	44.9
87.5°	14.5	15.9	13.0	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)