

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: P263341

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263341
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-LD5-45SE-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2930.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

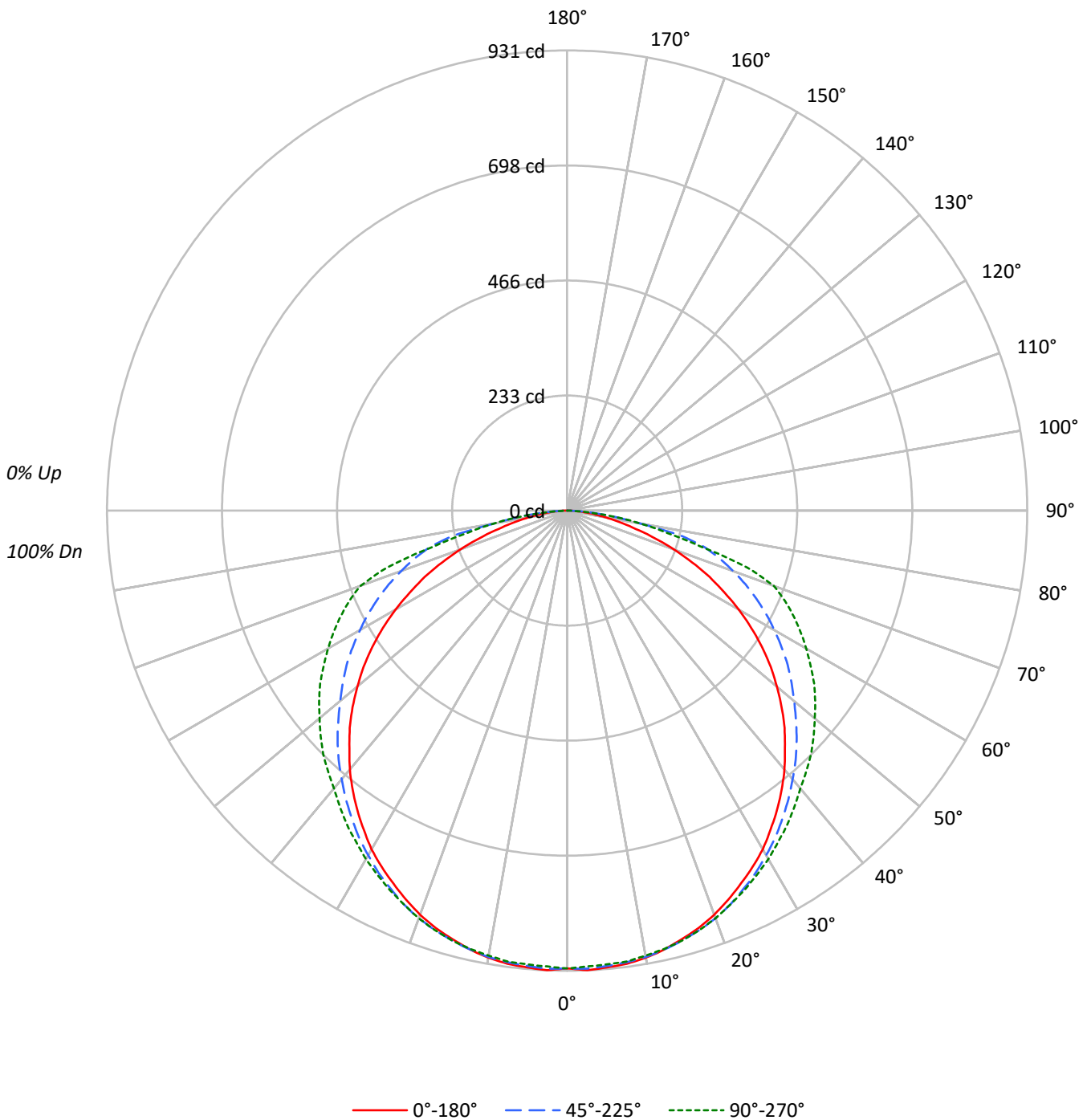
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1246	1246	1246
5°	1253	1249	1245
10°	1255	1253	1249
15°	1250	1254	1254
20°	1246	1257	1257
25°	1236	1254	1258
30°	1230	1251	1265
35°	1216	1248	1275
40°	1202	1247	1289
45°	1184	1250	1328
50°	1159	1254	1369
55°	1129	1278	1431
60°	1079	1303	1503
65°	1012	1344	1609
70°	905	1405	1751
75°	748	1503	1448
80°	610	1161	1172
85°	491	770	724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.0
10°-20°	253.8	8.7
20°-30°	388.0	13.2
30°-40°	474.5	16.2
40°-50°	507.7	17.3
50°-60°	486.2	16.6
60°-70°	411.3	14.0
70°-80°	260.7	8.9
80°-90°	60.0	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°	729.8	24.9
0°-40°	1204.2	41.1
0°-60°	2198.1	75.0
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	928	923	925	923	922	88
15°	898	896	900	900	900	253
25°	832	832	844	848	848	384
35°	740	745	760	770	776	463
45°	622	633	657	684	698	479
55°	481	496	545	590	610	429
65°	318	348	422	480	506	313
75°	144	203	289	288	278	156
85°	32	48	50	45	47	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.2	926.2	926.2	926.2	926.2
2.5°	930.8	926.2	927.7	926.2	923.2
5°	927.7	923.2	924.7	923.2	921.7
7.5°	924.7	920.2	921.7	920.2	920.2
10°	918.7	914.1	917.1	915.6	914.1
12.5°	909.6	906.6	909.6	908.1	908.1
15°	897.5	896.0	900.5	900.5	900.5
17.5°	885.4	883.9	889.9	889.9	889.9
20°	870.2	868.7	877.8	877.8	877.8
22.5°	852.1	850.6	862.7	862.7	862.7
25°	832.4	832.4	844.5	847.5	847.5
27.5°	812.7	812.7	826.3	830.9	830.9
30°	791.5	791.5	805.2	811.2	814.2
32.5°	765.8	768.8	784.0	791.5	794.6
35°	740.1	744.6	759.7	770.3	776.4
37.5°	712.8	717.4	735.5	747.6	755.2
40°	684.1	690.1	709.8	724.9	734.0
42.5°	652.3	661.4	684.1	703.8	715.9
45°	622.0	632.6	656.8	684.1	697.7
47.5°	588.7	600.8	628.1	662.9	676.5
50°	553.9	566.0	599.3	638.7	653.8
52.5°	519.1	532.7	572.1	614.5	632.6
55°	481.3	496.4	544.8	590.2	609.9
57.5°	441.9	460.1	514.6	563.0	584.2
60°	401.1	423.8	484.3	535.8	558.5
62.5°	358.7	385.9	454.0	508.5	532.7
65°	317.8	348.1	422.3	479.8	505.5
67.5°	273.9	311.8	390.5	452.5	476.7
70°	230.0	273.9	357.2	420.7	445.0
72.5°	186.2	239.1	323.9	381.4	381.4
75°	143.8	202.8	289.1	287.6	278.5
77.5°	109.0	169.5	237.6	202.8	204.3
80°	78.7	136.2	149.8	149.8	151.3
82.5°	53.0	104.4	96.9	95.3	98.4
85°	31.8	48.4	49.9	45.4	46.9
87.5°	15.1	16.6	13.6	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)