

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: P263374

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263374
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-LD5-35-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2211.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

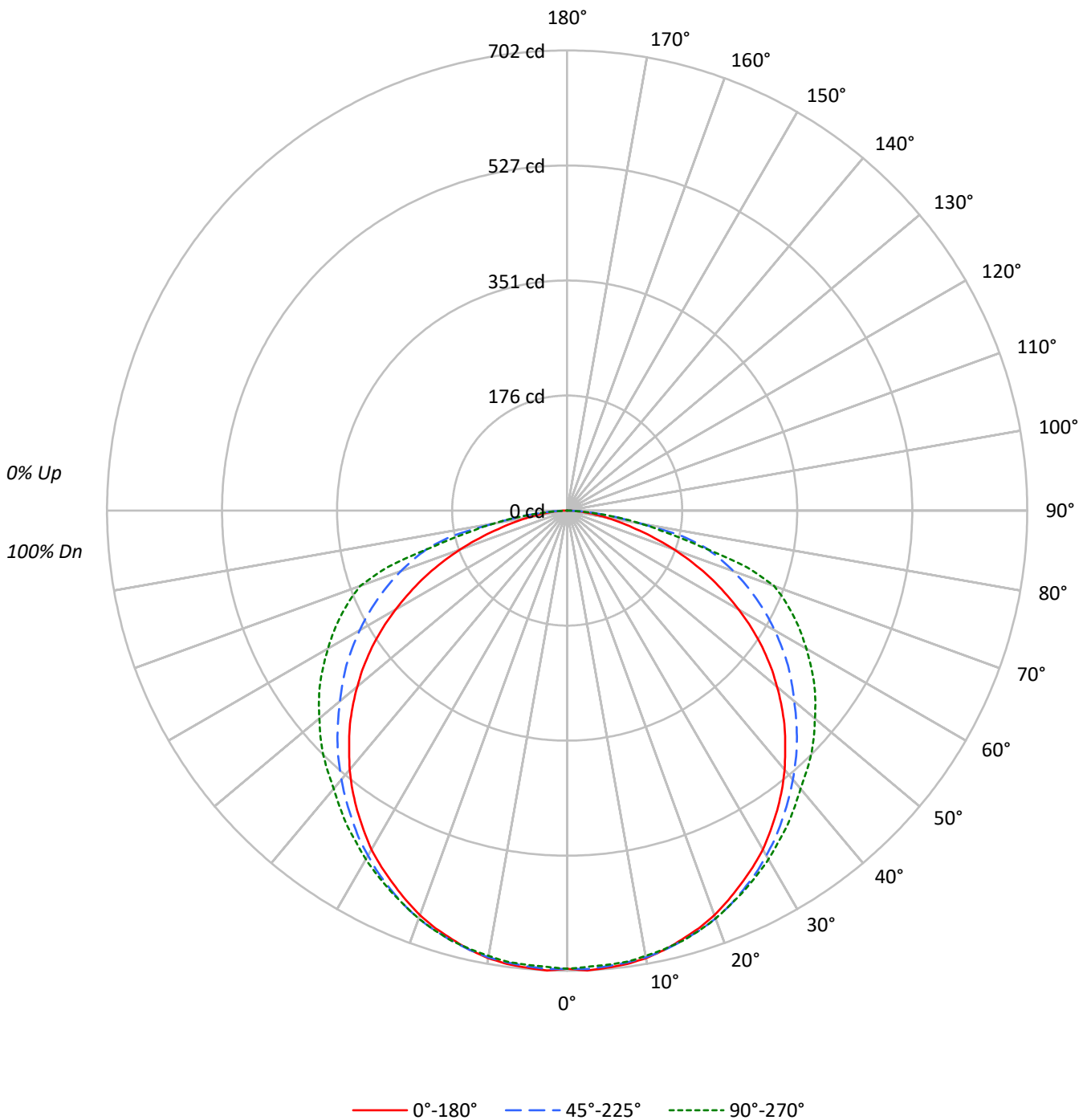
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	940	940	940
5°	946	942	939
10°	947	946	942
15°	943	947	947
20°	940	948	948
25°	932	946	950
30°	928	944	955
35°	917	942	962
40°	907	941	973
45°	893	943	1002
50°	875	947	1033
55°	852	964	1080
60°	814	984	1134
65°	763	1014	1214
70°	683	1060	1321
75°	564	1134	1092
80°	460	876	885
85°	371	582	546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.0
10°-20°	191.5	8.7
20°-30°	292.8	13.2
30°-40°	358.0	16.2
40°-50°	383.1	17.3
50°-60°	366.9	16.6
60°-70°	310.3	14.0
70°-80°	196.7	8.9
80°-90°	45.3	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°	550.7	24.9
0°-40°	908.7	41.1
0°-60°	1658.7	75.0
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	700	697	698	697	696	67
15°	677	676	680	680	680	191
25°	628	628	637	640	640	290
35°	558	562	573	581	586	349
45°	469	477	496	516	526	362
55°	363	375	411	445	460	324
65°	240	263	319	362	381	236
75°	108	153	218	217	210	118
85°	24	36	38	34	35	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.9	698.9	698.9	698.9	698.9
2.5°	702.4	698.9	700.1	698.9	696.7
5°	700.1	696.7	697.8	696.7	695.5
7.5°	697.8	694.4	695.5	694.4	694.4
10°	693.2	689.8	692.1	690.9	689.8
12.5°	686.4	684.1	686.4	685.2	685.2
15°	677.2	676.1	679.5	679.5	679.5
17.5°	668.1	667.0	671.5	671.5	671.5
20°	656.7	655.5	662.4	662.4	662.4
22.5°	643.0	641.8	651.0	651.0	651.0
25°	628.1	628.1	637.3	639.6	639.6
27.5°	613.3	613.3	623.6	627.0	627.0
30°	597.3	597.3	607.6	612.1	614.4
32.5°	577.9	580.2	591.6	597.3	599.6
35°	558.5	561.9	573.3	581.3	585.9
37.5°	537.9	541.3	555.0	564.2	569.9
40°	516.2	520.8	535.6	547.0	553.9
42.5°	492.2	499.1	516.2	531.1	540.2
45°	469.4	477.4	495.7	516.2	526.5
47.5°	444.3	453.4	474.0	500.2	510.5
50°	418.0	427.1	452.3	481.9	493.4
52.5°	391.7	402.0	431.7	463.7	477.4
55°	363.2	374.6	411.1	445.4	460.2
57.5°	333.5	347.2	388.3	424.8	440.8
60°	302.6	319.8	365.5	404.3	421.4
62.5°	270.7	291.2	342.6	383.7	402.0
65°	239.8	262.7	318.6	362.0	381.4
67.5°	206.7	235.3	294.7	341.5	359.7
70°	173.6	206.7	269.5	317.5	335.8
72.5°	140.5	180.4	244.4	287.8	287.8
75°	108.5	153.0	218.1	217.0	210.1
77.5°	82.2	127.9	179.3	153.0	154.2
80°	59.4	102.8	113.1	113.1	114.2
82.5°	40.0	78.8	73.1	71.9	74.2
85°	24.0	36.5	37.7	34.3	35.4
87.5°	11.4	12.6	10.3	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)