

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: P263462

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263462
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-LD5-35SE-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2210.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

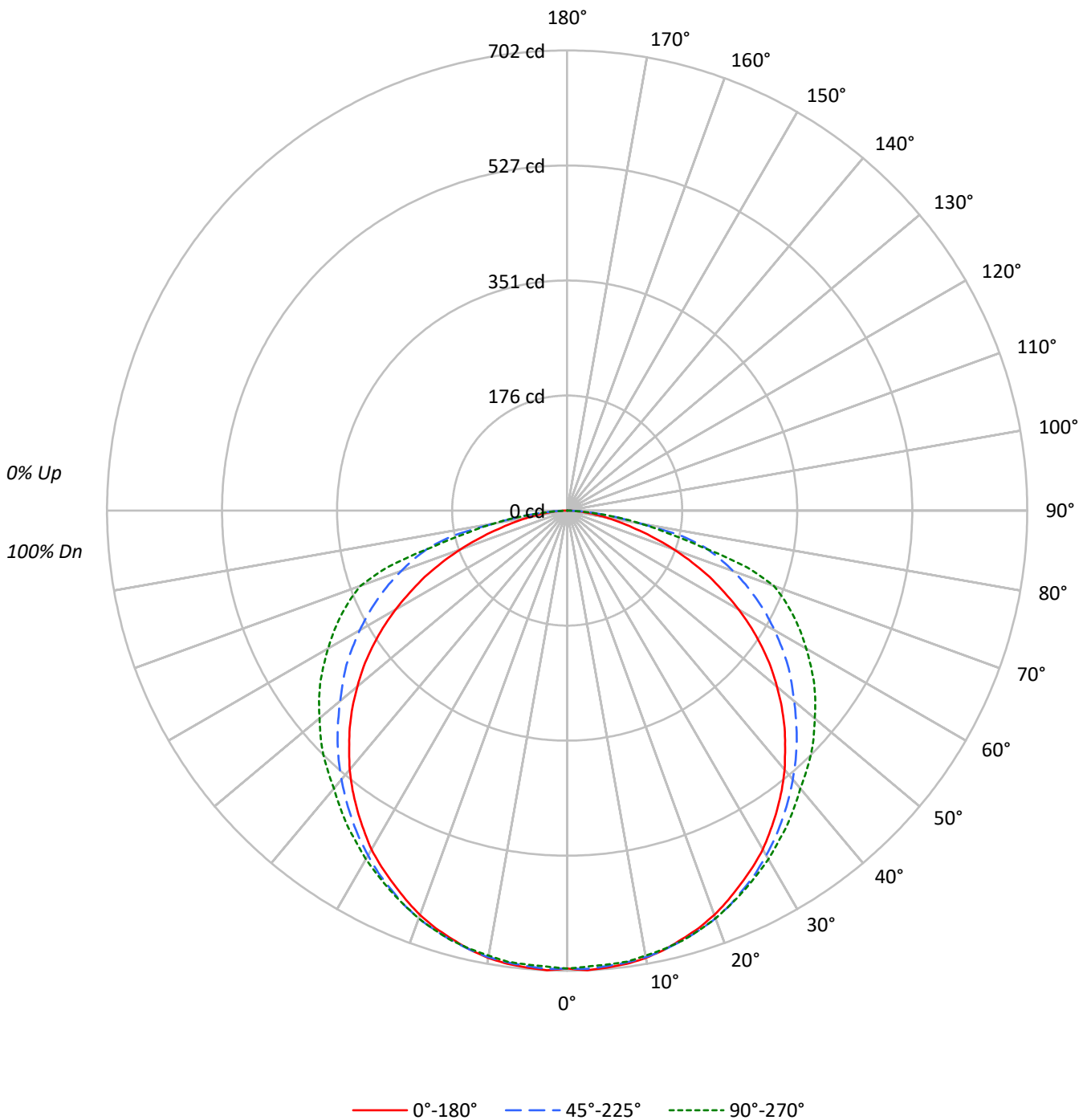
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	945	942	939
10°	947	945	942
15°	943	946	946
20°	940	948	948
25°	932	946	949
30°	928	944	954
35°	917	941	962
40°	906	940	972
45°	893	943	1001
50°	875	946	1032
55°	852	964	1079
60°	814	983	1133
65°	763	1014	1214
70°	683	1060	1320
75°	564	1133	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°	292.6	13.2
30°-40°	357.9	16.2
40°-50°	382.9	17.3
50°-60°	366.7	16.6
60°-70°	310.2	14.0
70°-80°	196.6	8.9
80°-90°	45.2	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°	550.4	24.9
0°-40°	908.3	41.1
0°-60°	1657.9	75.0
0°-90°	2210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	700	696	698	696	695	67
15°	677	676	679	679	679	191
25°	628	628	637	639	639	290
35°	558	562	573	581	586	349
45°	469	477	495	516	526	361
55°	363	374	411	445	460	324
65°	240	263	318	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°	698.6	698.6	698.6	698.6	698.6
2.5°	702.0	698.6	699.8	698.6	696.3
5°	699.8	696.3	697.5	696.3	695.2
7.5°	697.5	694.1	695.2	694.1	694.1
10°	692.9	689.5	691.8	690.6	689.5
12.5°	686.1	683.8	686.1	684.9	684.9
15°	676.9	675.8	679.2	679.2	679.2
17.5°	667.8	666.7	671.2	671.2	671.2
20°	656.4	655.2	662.1	662.1	662.1
22.5°	642.7	641.5	650.7	650.7	650.7
25°	627.8	627.8	637.0	639.3	639.3
27.5°	613.0	613.0	623.3	626.7	626.7
30°	597.0	597.0	607.3	611.9	614.1
32.5°	577.6	579.9	591.3	597.0	599.3
35°	558.2	561.6	573.1	581.0	585.6
37.5°	537.7	541.1	554.8	563.9	569.6
40°	516.0	520.5	535.4	546.8	553.6
42.5°	492.0	498.9	516.0	530.8	539.9
45°	469.2	477.2	495.4	516.0	526.2
47.5°	444.1	453.2	473.7	500.0	510.3
50°	417.8	426.9	452.0	481.7	493.1
52.5°	391.5	401.8	431.5	463.5	477.2
55°	363.0	374.4	411.0	445.2	460.0
57.5°	333.3	347.0	388.1	424.7	440.6
60°	302.5	319.6	365.3	404.1	421.2
62.5°	270.5	291.1	342.5	383.6	401.8
65°	239.7	262.6	318.5	361.9	381.3
67.5°	206.6	235.2	294.5	341.3	359.6
70°	173.5	206.6	269.4	317.3	335.6
72.5°	140.4	180.4	244.3	287.7	287.7
75°	108.4	153.0	218.0	216.9	210.0
77.5°	82.2	127.9	179.2	153.0	154.1
80°	59.4	102.7	113.0	113.0	114.2
82.5°	40.0	78.8	73.1	71.9	74.2
85°	24.0	36.5	37.7	34.2	35.4
87.5°	11.4	12.6	10.3	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)