

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: P263327

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263327
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-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

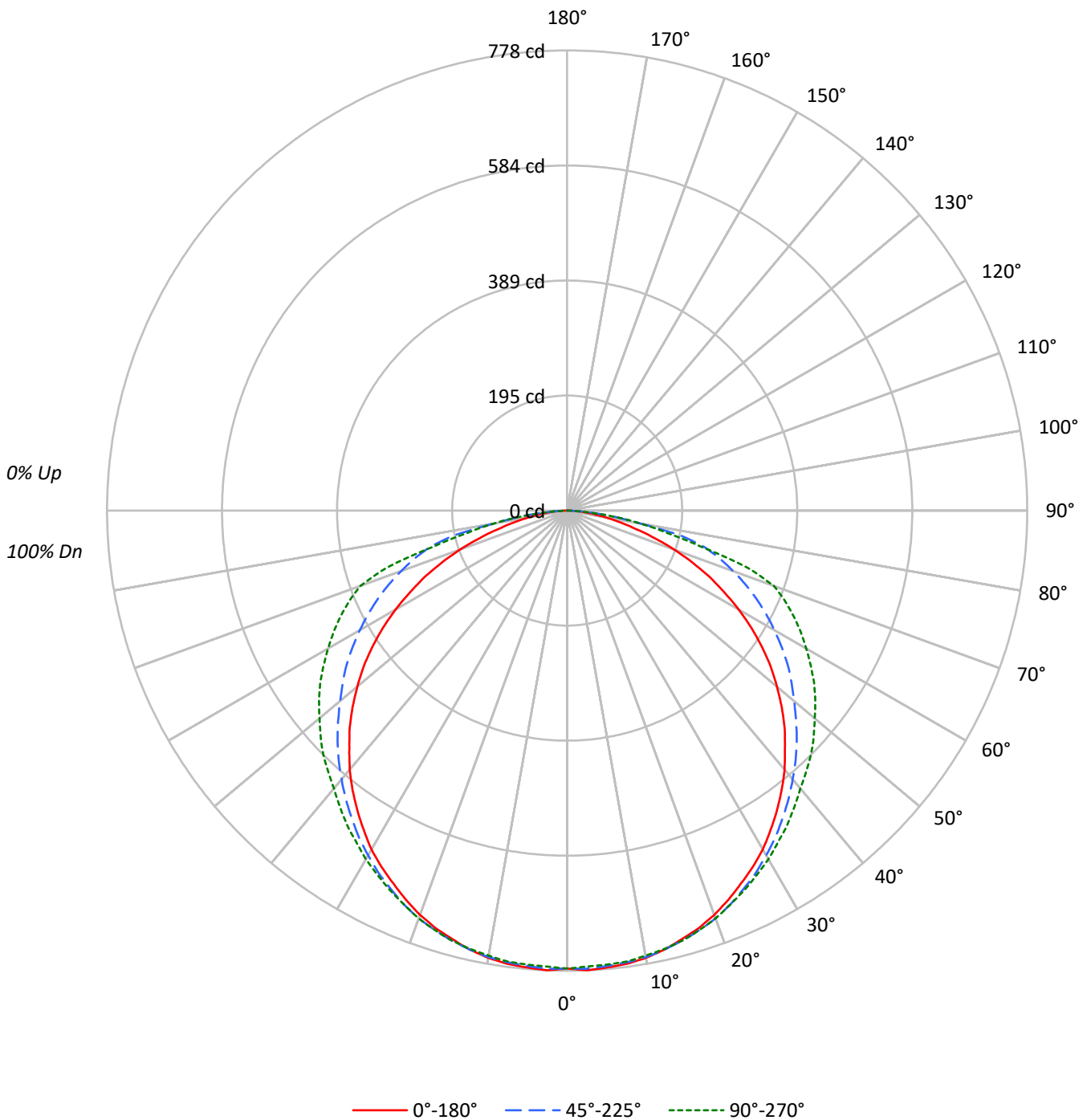
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1042	1042	1042
5°	1047	1044	1041
10°	1049	1047	1044
15°	1045	1048	1048
20°	1042	1051	1051
25°	1033	1048	1052
30°	1028	1046	1057
35°	1016	1043	1066
40°	1004	1042	1078
45°	989	1045	1110
50°	969	1048	1144
55°	944	1068	1196
60°	902	1089	1256
65°	846	1124	1345
70°	756	1174	1463
75°	625	1256	1210
80°	510	970	980
85°	411	644	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.0
10°-20°	212.2	8.7
20°-30°	324.3	13.2
30°-40°	396.6	16.2
40°-50°	424.4	17.3
50°-60°	406.4	16.6
60°-70°	343.7	14.0
70°-80°	217.9	8.9
80°-90°	50.1	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°	610.0	24.9
0°-40°	1006.5	41.1
0°-60°	1837.3	75.0
0°-90°	2449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	775	772	773	772	770	74
15°	750	749	753	753	753	212
25°	696	696	706	708	708	321
35°	619	622	635	644	649	387
45°	520	529	549	572	583	401
55°	402	415	455	493	510	359
65°	266	291	353	401	422	262
75°	120	170	242	240	233	131
85°	27	40	42	38	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.2	774.2	774.2	774.2	774.2
2.5°	778.0	774.2	775.4	774.2	771.6
5°	775.4	771.6	772.9	771.6	770.4
7.5°	772.9	769.1	770.4	769.1	769.1
10°	767.8	764.1	766.6	765.3	764.1
12.5°	760.3	757.7	760.3	759.0	759.0
15°	750.1	748.9	752.7	752.7	752.7
17.5°	740.0	738.8	743.8	743.8	743.8
20°	727.4	726.1	733.7	733.7	733.7
22.5°	712.2	710.9	721.0	721.0	721.0
25°	695.7	695.7	705.9	708.4	708.4
27.5°	679.3	679.3	690.7	694.5	694.5
30°	661.6	661.6	673.0	678.0	680.6
32.5°	640.1	642.6	655.3	661.6	664.1
35°	618.6	622.4	635.0	643.9	648.9
37.5°	595.8	599.6	614.8	624.9	631.2
40°	571.8	576.8	593.3	605.9	613.5
42.5°	545.2	552.8	571.8	588.2	598.3
45°	519.9	528.8	549.0	571.8	583.2
47.5°	492.1	502.2	525.0	554.1	565.5
50°	463.0	473.1	500.9	533.8	546.5
52.5°	433.9	445.3	478.2	513.6	528.8
55°	402.3	414.9	455.4	493.3	509.8
57.5°	369.4	384.6	430.1	470.6	488.3
60°	335.2	354.2	404.8	447.8	466.8
62.5°	299.8	322.6	379.5	425.0	445.3
65°	265.6	290.9	352.9	401.0	422.5
67.5°	229.0	260.6	326.4	378.2	398.5
70°	192.3	229.0	298.5	351.7	371.9
72.5°	155.6	199.9	270.7	318.8	318.8
75°	120.2	169.5	241.6	240.3	232.8
77.5°	91.1	141.7	198.6	169.5	170.8
80°	65.8	113.8	125.2	125.2	126.5
82.5°	44.3	87.3	81.0	79.7	82.2
85°	26.6	40.5	41.7	37.9	39.2
87.5°	12.6	13.9	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)