

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: P263746

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

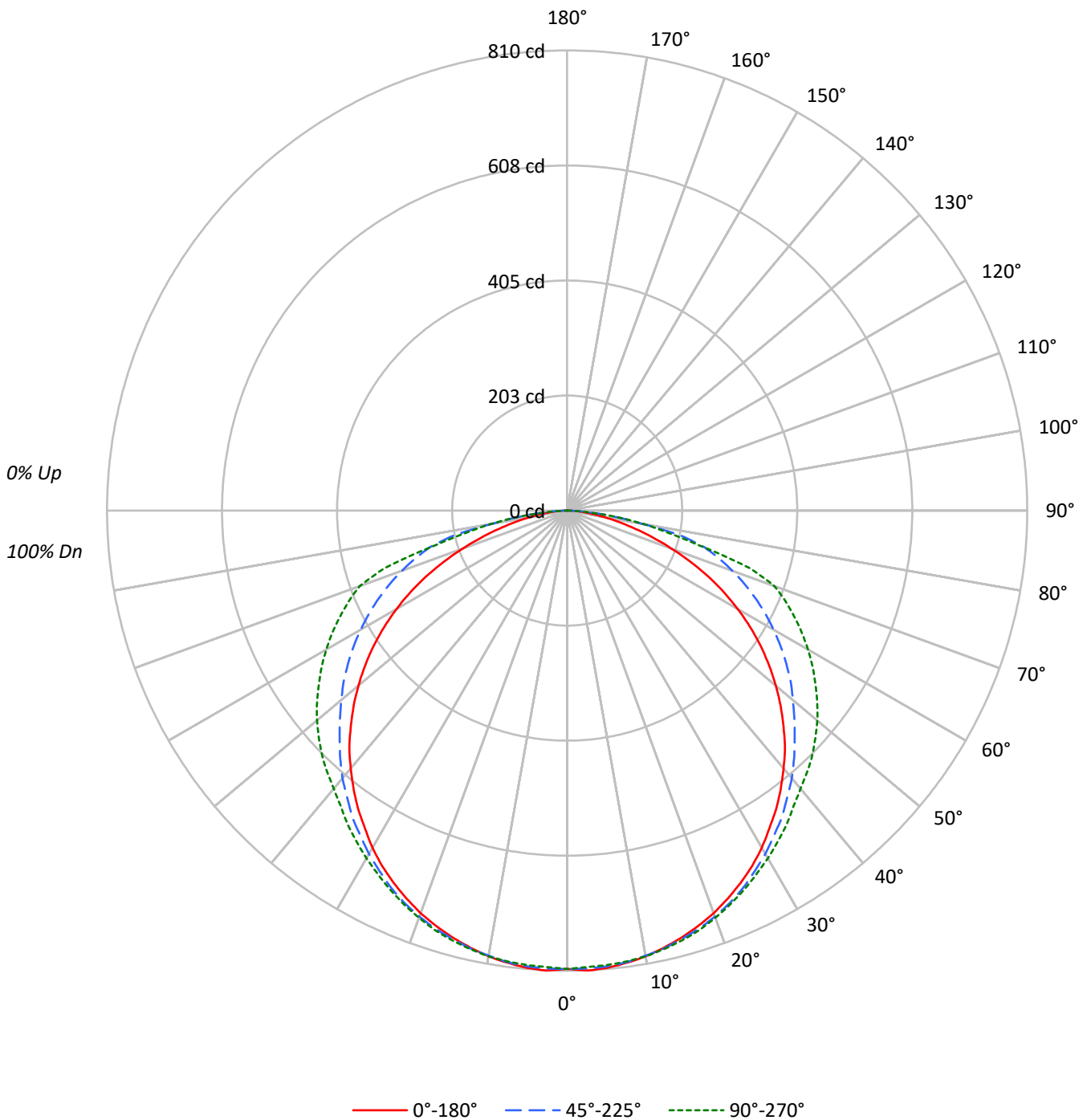
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1086	1086	1086
5°	1091	1088	1085
10°	1089	1087	1089
15°	1084	1087	1091
20°	1080	1089	1092
25°	1073	1088	1094
30°	1065	1084	1098
35°	1054	1082	1107
40°	1041	1080	1122
45°	1025	1078	1161
50°	1004	1086	1204
55°	976	1105	1252
60°	934	1129	1318
65°	869	1165	1404
70°	769	1217	1528
75°	645	1303	1283
80°	514	1029	1068
85°	406	696	638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.2	8.7
20°-30°	336.4	13.2
30°-40°	411.2	16.2
40°-50°	440.2	17.3
50°-60°	422.2	16.6
60°-70°	356.5	14.0
70°-80°	227.8	9.0
80°-90°	53.9	2.1
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°	633.1	24.9
0°-40°	1044.4	41.0
0°-60°	1906.8	74.9
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	808	803	806	804	803	77
15°	778	776	780	783	783	220
25°	723	722	733	735	737	333
35°	641	646	659	668	674	401
45°	539	548	566	593	610	416
55°	416	430	471	514	534	371
65°	273	299	366	417	441	269
75°	124	177	251	256	247	134
85°	26	44	45	44	41	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.8	806.8	806.8	806.8	806.8
2.5°	810.5	805.5	806.8	806.8	804.3
5°	808.0	803.0	805.5	804.3	803.0
7.5°	803.0	799.3	801.8	801.8	800.5
10°	796.8	793.0	795.5	796.8	796.8
12.5°	788.0	785.5	789.2	789.2	790.5
15°	778.0	775.5	780.5	783.0	783.0
17.5°	766.7	765.4	771.7	773.0	774.2
20°	754.2	752.9	760.4	760.4	762.9
22.5°	739.1	737.9	747.9	747.9	750.4
25°	722.9	721.6	732.9	735.4	736.6
27.5°	705.3	704.1	715.3	719.1	721.6
30°	685.3	685.3	697.8	702.8	706.6
32.5°	662.7	666.5	677.8	685.3	690.3
35°	641.4	646.4	659.0	667.7	674.0
37.5°	617.6	622.6	636.4	647.7	655.2
40°	592.6	598.8	615.1	627.6	638.9
42.5°	567.5	573.8	591.3	610.1	625.1
45°	538.7	547.5	566.3	592.6	610.1
47.5°	509.9	518.6	542.5	575.0	592.6
50°	479.8	489.8	518.6	556.2	575.0
52.5°	448.5	459.8	496.1	536.2	555.0
55°	415.9	429.7	471.0	513.6	533.7
57.5°	382.1	397.1	446.0	491.1	512.4
60°	347.0	365.8	419.7	467.3	489.8
62.5°	310.7	333.2	393.4	442.2	466.0
65°	273.1	299.4	365.8	417.2	441.0
67.5°	234.3	269.3	338.2	392.1	415.9
70°	195.4	236.8	309.4	364.6	388.4
72.5°	159.1	206.7	280.6	332.0	337.0
75°	124.0	176.6	250.6	255.6	246.8
77.5°	92.7	146.6	206.7	184.2	182.9
80°	66.4	117.8	132.8	136.6	137.8
82.5°	43.8	88.9	86.4	88.9	87.7
85°	26.3	43.8	45.1	43.8	41.3
87.5°	12.5	16.3	12.5	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)