

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: P263659

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263659
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-LD5-35-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2556.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

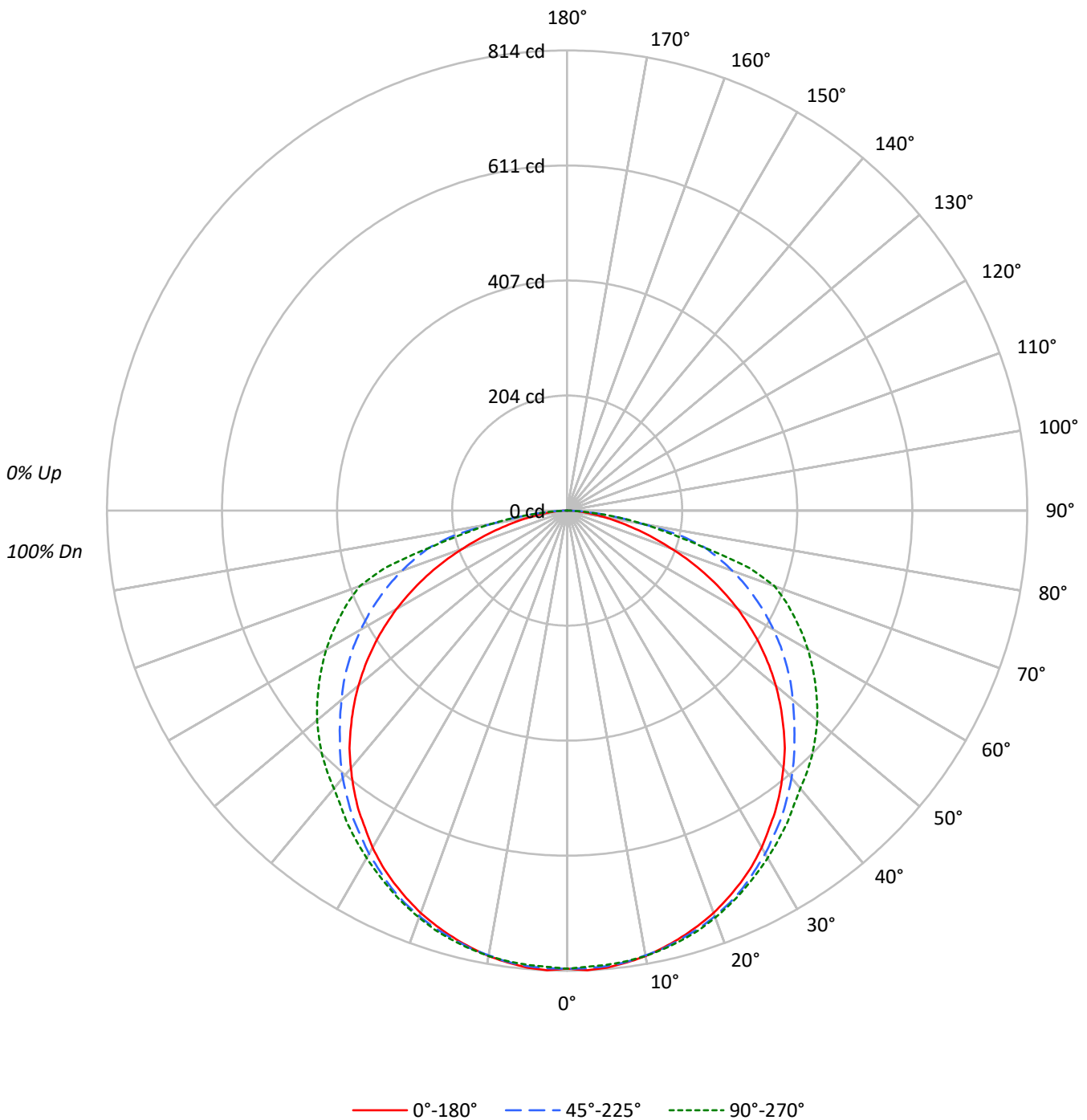
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1090	1090	1090
5°	1096	1093	1089
10°	1093	1091	1093
15°	1088	1092	1095
20°	1084	1093	1097
25°	1078	1093	1098
30°	1069	1089	1102
35°	1058	1087	1112
40°	1045	1085	1127
45°	1029	1082	1166
50°	1009	1090	1209
55°	980	1110	1257
60°	938	1134	1324
65°	873	1170	1410
70°	772	1223	1534
75°	648	1308	1289
80°	517	1034	1072
85°	408	699	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	221.2	8.7
20°-30°	337.8	13.2
30°-40°	413.0	16.2
40°-50°	442.1	17.3
50°-60°	424.0	16.6
60°-70°	358.0	14.0
70°-80°	228.8	9.0
80°-90°	54.1	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°	635.9	24.9
0°-40°	1048.9	41.0
0°-60°	1915.0	74.9
0°-90°	2556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	812	806	809	808	806	77
15°	781	779	784	786	786	221
25°	726	725	736	739	740	335
35°	644	649	662	671	677	403
45°	541	550	569	595	613	417
55°	418	432	473	516	536	373
65°	274	301	367	419	443	271
75°	125	177	252	257	248	134
85°	26	44	45	44	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.3	810.3	810.3	810.3	810.3
2.5°	814.0	809.0	810.3	810.3	807.8
5°	811.5	806.5	809.0	807.8	806.5
7.5°	806.5	802.7	805.2	805.2	804.0
10°	800.2	796.4	798.9	800.2	800.2
12.5°	791.4	788.9	792.7	792.7	793.9
15°	781.3	778.8	783.9	786.4	786.4
17.5°	770.0	768.8	775.0	776.3	777.6
20°	757.4	756.2	763.7	763.7	766.2
22.5°	742.3	741.1	751.1	751.1	753.7
25°	726.0	724.7	736.0	738.6	739.8
27.5°	708.4	707.1	718.4	722.2	724.7
30°	688.2	688.2	700.8	705.8	709.6
32.5°	665.6	669.4	680.7	688.2	693.3
35°	644.2	649.2	661.8	670.6	676.9
37.5°	620.3	625.3	639.2	650.5	658.0
40°	595.1	601.4	617.8	630.4	641.7
42.5°	570.0	576.3	593.9	612.7	627.8
45°	541.0	549.8	568.7	595.1	612.7
47.5°	512.1	520.9	544.8	577.5	595.1
50°	481.9	492.0	520.9	558.6	577.5
52.5°	450.4	461.8	498.2	538.5	557.4
55°	417.7	431.6	473.1	515.9	536.0
57.5°	383.7	398.8	447.9	493.2	514.6
60°	348.5	367.4	421.5	469.3	492.0
62.5°	312.0	334.7	395.1	444.1	468.0
65°	274.3	300.7	367.4	419.0	442.9
67.5°	235.3	270.5	339.7	393.8	417.7
70°	196.3	237.8	310.8	366.1	390.0
72.5°	159.8	207.6	281.8	333.4	338.5
75°	124.6	177.4	251.6	256.7	247.9
77.5°	93.1	147.2	207.6	185.0	183.7
80°	66.7	118.3	133.4	137.1	138.4
82.5°	44.0	89.3	86.8	89.3	88.1
85°	26.4	44.0	45.3	44.0	41.5
87.5°	12.6	16.4	12.6	11.3	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)