

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: P276788

Luminaire Tested: **24CZ2-35-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

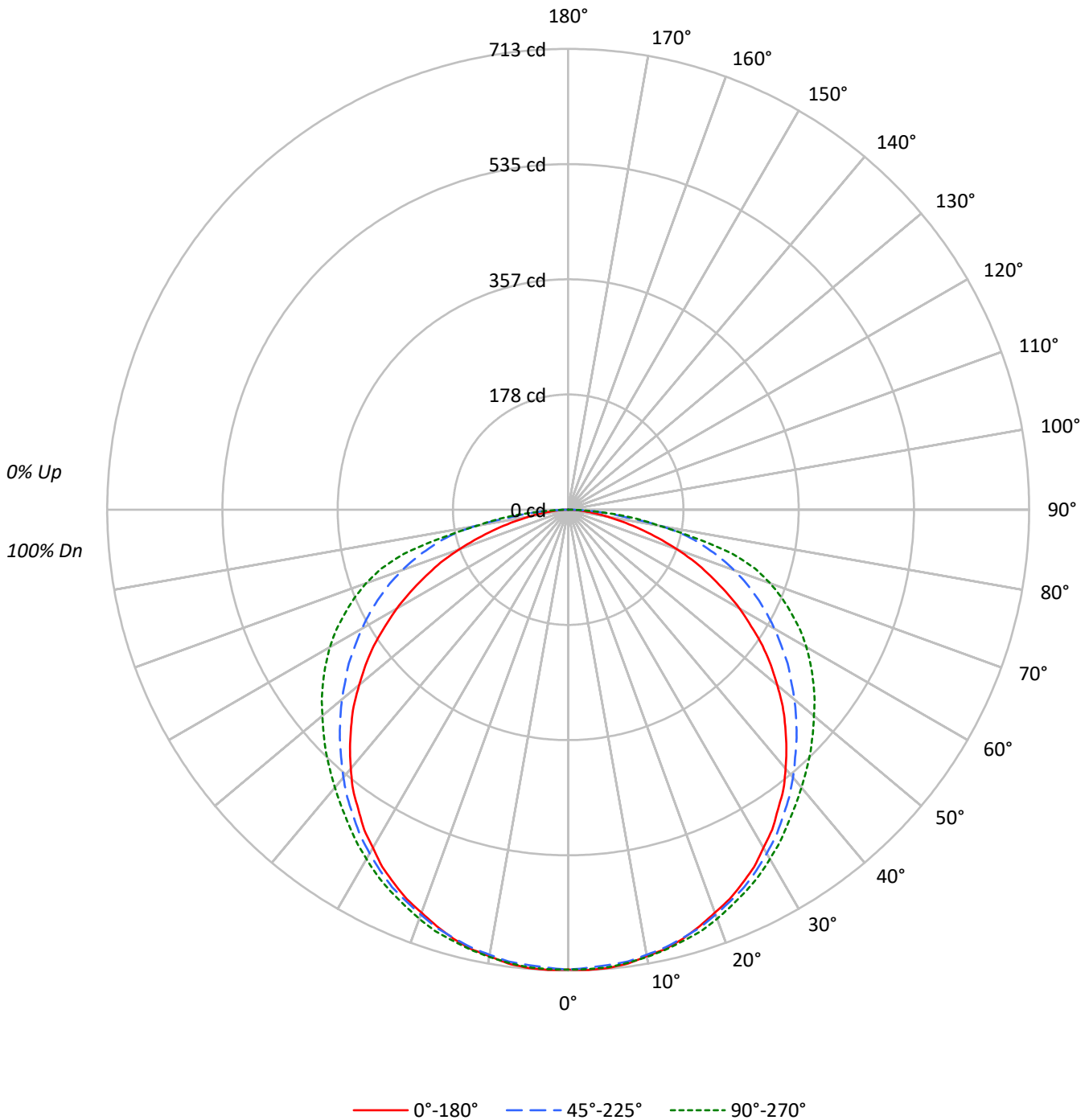
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	957	957	957
5°	961	955	960
10°	958	955	960
15°	957	955	962
20°	950	955	964
25°	947	957	966
30°	938	954	970
35°	929	951	974
40°	919	950	986
45°	903	950	1008
50°	884	956	1038
55°	861	972	1085
60°	825	991	1145
65°	772	1026	1215
70°	702	1073	1307
75°	595	1132	1366
80°	470	1139	1105
85°	346	866	971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	194.3	8.6
20°-30°	297.1	13.1
30°-40°	363.2	16.0
40°-50°	387.1	17.1
50°-60°	370.1	16.4
60°-70°	313.5	13.9
70°-80°	210.7	9.3
80°-90°	59.4	2.6
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°	558.9	24.7
0°-40°	922.1	40.7
0°-60°	1679.3	74.2
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	712	710	707	710	710	68
15°	687	687	686	691	690	194
25°	638	640	644	650	651	294
35°	566	570	579	590	593	354
45°	475	483	500	521	530	366
55°	367	380	414	447	462	327
65°	242	267	322	365	382	241
75°	114	156	218	255	263	123
85°	22	46	56	61	63	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.6	711.6	711.6	711.6	711.6
2.5°	712.8	712.8	709.4	711.6	711.6
5°	711.6	710.5	707.2	710.5	710.5
7.5°	708.3	707.2	704.9	708.3	707.2
10°	701.5	701.5	699.3	702.7	702.7
12.5°	695.9	694.8	693.7	698.2	697.1
15°	687.0	687.0	685.8	691.4	690.3
17.5°	675.7	676.9	678.0	682.5	683.6
20°	663.4	665.6	666.7	673.5	673.5
22.5°	652.2	653.3	655.5	662.3	662.3
25°	637.6	639.8	644.3	649.9	651.0
27.5°	623.0	624.1	629.7	637.6	638.7
30°	603.9	607.3	614.0	623.0	624.1
32.5°	587.1	590.4	598.3	607.3	609.5
35°	565.7	570.2	579.2	590.4	592.7
37.5°	546.6	550.0	561.2	573.6	577.0
40°	523.1	529.8	541.0	555.6	561.2
42.5°	499.5	506.2	519.7	538.8	545.5
45°	474.8	482.7	499.5	520.8	529.8
47.5°	450.1	459.1	478.2	502.9	513.0
50°	422.1	433.3	456.8	484.9	496.1
52.5°	395.1	408.6	434.4	465.8	480.4
55°	367.0	380.5	414.2	446.7	462.5
57.5°	335.6	353.6	390.6	427.7	444.5
60°	306.4	323.3	368.2	408.6	425.4
62.5°	275.0	297.5	345.7	388.4	405.2
65°	242.5	267.1	322.2	364.8	381.6
67.5°	213.3	240.2	298.6	341.2	358.1
70°	178.5	212.1	272.8	315.4	332.3
72.5°	145.9	183.0	245.8	287.4	303.1
75°	114.5	156.0	217.8	254.8	262.7
77.5°	85.3	129.1	188.6	204.3	198.7
80°	60.6	103.3	147.0	139.2	142.6
82.5°	39.3	78.6	90.9	103.3	106.6
85°	22.4	46.0	56.1	60.6	62.9
87.5°	10.1	16.8	22.4	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)