

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: P275744

Luminaire Tested: **14CZ2-39-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

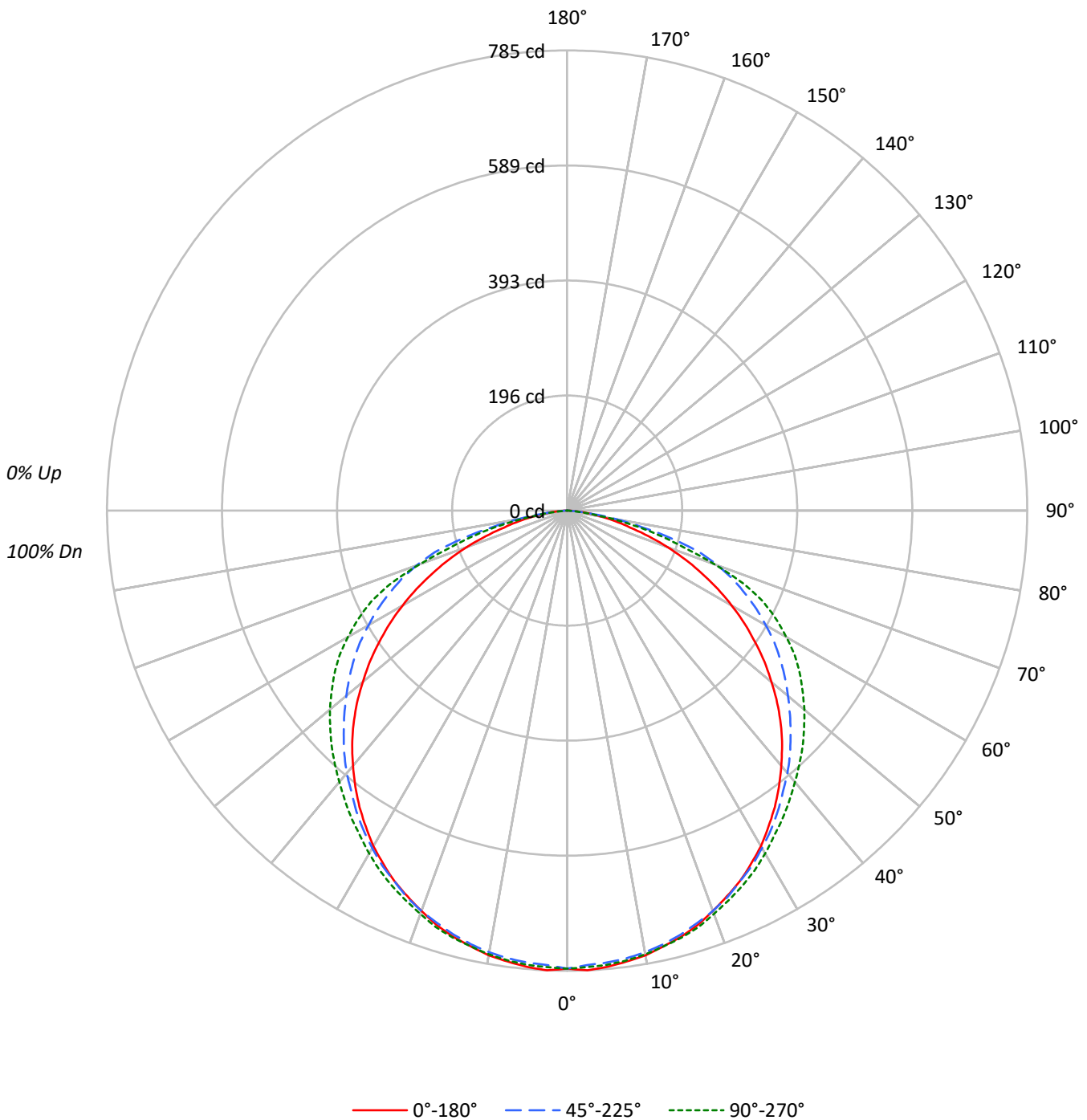
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2103	2103	2103
5°	2111	2091	2101
10°	2105	2090	2100
15°	2096	2086	2101
20°	2081	2081	2097
25°	2071	2071	2098
30°	2055	2066	2100
35°	2029	2058	2106
40°	1996	2054	2124
45°	1962	2052	2163
50°	1906	2059	2211
55°	1837	2085	2273
60°	1745	2108	2323
65°	1612	2134	2354
70°	1433	2150	2106
75°	1155	1932	1685
80°	903	1354	1100
85°	618	392	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.2
10°-20°	212.2	9.1
20°-30°	323.1	13.8
30°-40°	393.5	16.9
40°-50°	417.5	17.9
50°-60°	394.0	16.9
60°-70°	318.1	13.6
70°-80°	172.6	7.4
80°-90°	27.9	1.2
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°	609.3	26.1
0°-40°	1002.8	43.0
0°-60°	1814.3	77.8
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	780	774	780	778	74
15°	752	750	749	754	754	212
25°	698	696	698	705	707	321
35°	618	621	627	639	641	386
45°	516	523	539	559	568	397
55°	392	408	444	474	484	350
65°	253	284	335	362	370	251
75°	111	162	186	168	162	121
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.4	781.4	781.4	781.4	781.4
2.5°	785.0	781.4	775.9	781.4	779.6
5°	781.4	779.6	774.1	779.6	777.7
7.5°	775.9	775.9	770.5	774.1	774.1
10°	770.5	768.6	765.0	770.5	768.6
12.5°	761.3	759.5	757.7	763.2	761.3
15°	752.2	750.4	748.6	754.1	754.1
17.5°	741.3	739.5	737.7	745.0	745.0
20°	726.7	726.7	726.7	734.0	732.2
22.5°	712.2	712.2	714.0	721.3	719.5
25°	697.6	695.8	697.6	704.9	706.7
27.5°	679.4	681.2	683.0	690.3	692.1
30°	661.2	663.0	664.8	673.9	675.7
32.5°	639.3	643.0	646.6	657.5	657.5
35°	617.5	621.1	626.6	639.3	641.1
37.5°	593.8	597.4	604.7	619.3	622.9
40°	568.3	573.7	584.7	599.2	604.7
42.5°	542.8	550.1	562.8	579.2	586.5
45°	515.5	522.7	539.1	559.2	568.3
47.5°	486.3	495.4	515.5	541.0	548.2
50°	455.4	468.1	491.8	519.1	528.2
52.5°	424.4	439.0	468.1	497.2	506.3
55°	391.6	408.0	444.4	473.6	484.5
57.5°	358.8	377.0	418.9	449.9	460.8
60°	324.2	346.1	391.6	422.6	431.7
62.5°	289.6	315.1	364.3	395.2	402.5
65°	253.2	284.1	335.1	362.5	369.7
67.5°	218.6	255.0	306.0	326.0	326.0
70°	182.1	222.2	273.2	278.7	267.7
72.5°	145.7	191.2	236.8	216.7	207.6
75°	111.1	162.1	185.8	167.6	162.1
77.5°	83.8	131.1	131.1	120.2	116.6
80°	58.3	100.2	87.4	76.5	71.0
82.5°	38.2	56.5	45.5	36.4	31.0
85°	20.0	21.9	12.7	10.9	9.1
87.5°	7.3	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)