

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: P277590

Luminaire Tested: **22CZ2-39HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39HE-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2554.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

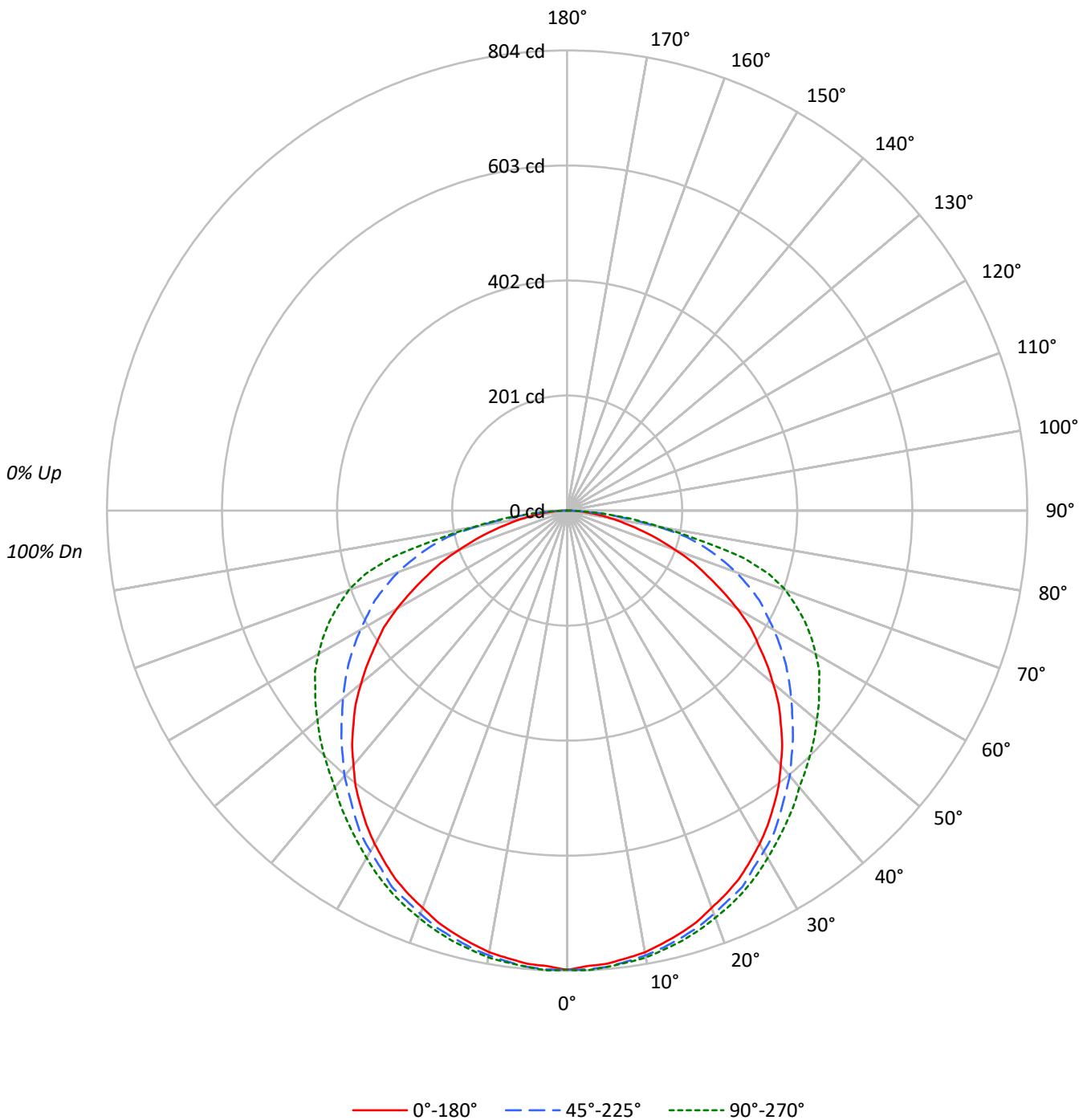
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	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°	2159	2159	2159
5°	2147	2162	2162
10°	2141	2156	2167
15°	2130	2151	2167
20°	2115	2147	2168
25°	2109	2153	2176
30°	2090	2137	2178
35°	2068	2129	2191
40°	2040	2125	2218
45°	2009	2124	2288
50°	1966	2139	2383
55°	1913	2186	2521
60°	1850	2245	2700
65°	1722	2357	2919
70°	1581	2469	3193
75°	1387	2598	3301
80°	1193	2475	2591
85°	1044	1797	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.0
10°-20°	217.9	8.5
20°-30°	332.4	13.0
30°-40°	405.9	15.9
40°-50°	434.0	17.0
50°-60°	418.9	16.4
60°-70°	360.6	14.1
70°-80°	244.0	9.6
80°-90°	64.4	2.5
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°	626.2	24.5
0°-40°	1032.1	40.4
0°-60°	1885.0	73.8
0°-90°	2554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	795	797	800	800	800	75
15°	765	767	772	776	778	216
25°	710	714	725	729	733	327
35°	629	635	648	661	667	394
45°	528	537	558	586	601	408
55°	408	421	466	513	537	365
65°	270	297	370	428	458	269
75°	133	177	250	301	318	143
85°	34	47	58	60	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.3	802.3	802.3	802.3	802.3
2.5°	796.6	798.5	802.3	802.3	804.1
5°	794.7	796.6	800.4	800.4	800.4
7.5°	789.1	791.0	794.7	796.6	796.6
10°	783.5	785.3	789.1	791.0	792.9
12.5°	774.1	776.0	781.6	785.3	785.3
15°	764.7	766.6	772.2	776.0	777.8
17.5°	753.4	757.2	762.8	766.6	768.4
20°	738.4	742.1	749.6	755.3	757.2
22.5°	725.2	729.0	736.5	742.1	745.9
25°	710.2	714.0	725.2	729.0	732.7
27.5°	691.4	695.2	704.6	712.1	717.7
30°	672.6	676.4	687.6	697.0	700.8
32.5°	652.0	657.6	670.7	678.3	683.9
35°	629.4	635.0	648.2	661.3	667.0
37.5°	606.9	612.5	625.6	642.6	650.1
40°	580.6	588.1	605.0	627.5	631.3
42.5°	556.1	565.5	580.6	606.9	616.3
45°	527.9	537.3	558.0	586.2	601.2
47.5°	501.6	511.0	533.6	567.4	586.2
50°	469.7	482.9	511.0	550.5	569.3
52.5°	439.6	450.9	488.5	531.7	554.3
55°	407.7	420.9	465.9	512.9	537.3
57.5°	379.5	390.8	441.5	494.1	522.3
60°	343.8	358.9	417.1	473.5	501.6
62.5°	306.2	328.8	392.7	450.9	481.0
65°	270.5	296.9	370.1	428.4	458.4
67.5°	238.6	266.8	341.9	403.9	432.1
70°	201.0	236.7	313.8	373.9	405.8
72.5°	167.2	206.7	281.8	341.9	370.1
75°	133.4	176.6	249.9	300.6	317.5
77.5°	103.3	144.7	214.2	229.2	231.1
80°	77.0	114.6	159.7	161.6	167.2
82.5°	52.6	80.8	103.3	112.7	114.6
85°	33.8	47.0	58.2	60.1	63.9
87.5°	15.0	16.9	20.7	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)