

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: P260273

Luminaire Tested: **22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2539.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

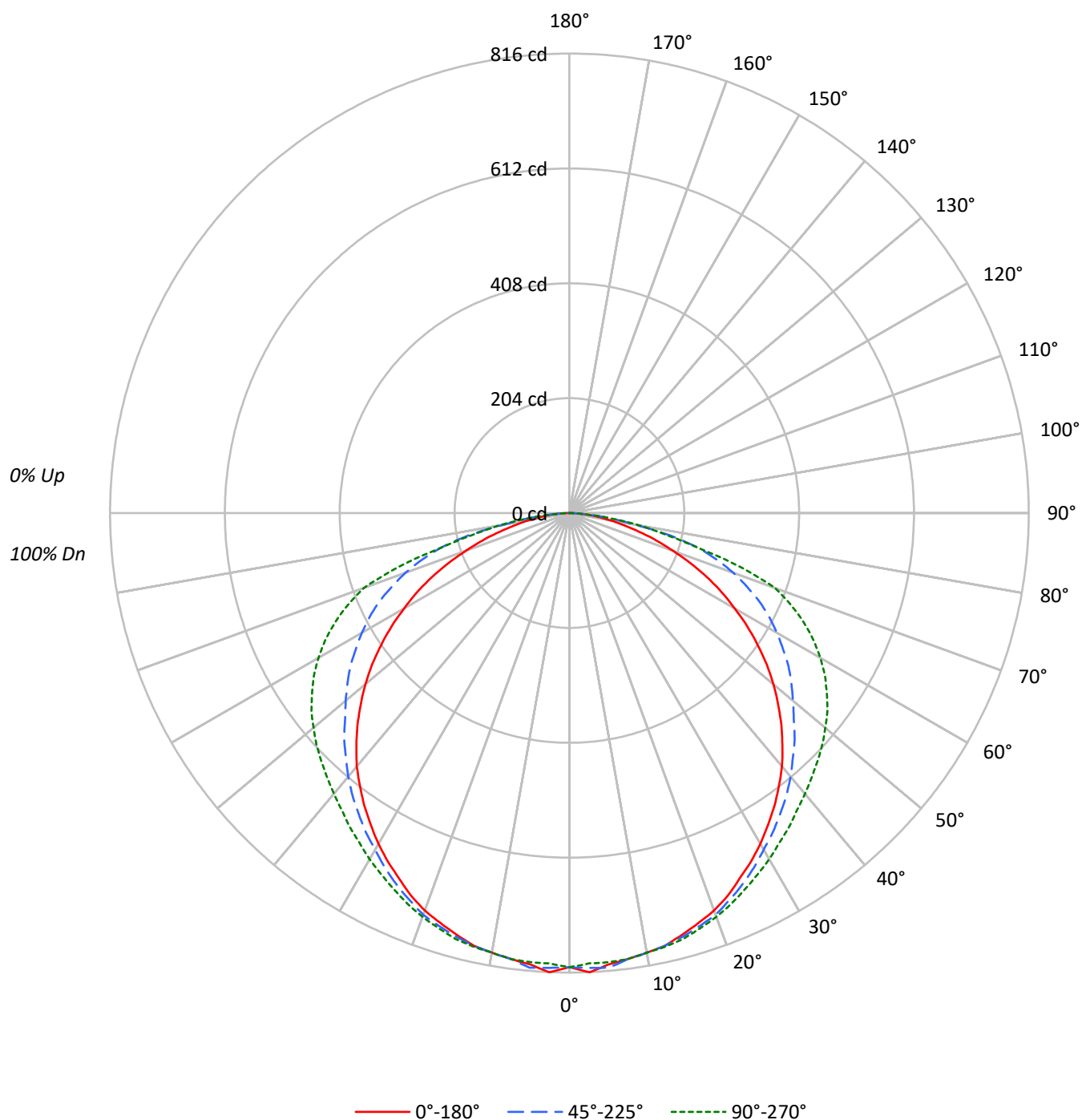
Input Watts (W): 35.495496
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2170	2170	2170
5°	2173	2189	2162
10°	2166	2166	2166
15°	2159	2170	2181
20°	2151	2174	2185
25°	2125	2160	2189
30°	2108	2144	2206
35°	2086	2144	2235
40°	2064	2147	2286
45°	2026	2154	2371
50°	1981	2171	2485
55°	1915	2229	2618
60°	1825	2292	2770
65°	1720	2373	2925
70°	1536	2436	3056
75°	1333	2439	2419
80°	1131	1802	1956
85°	973	1216	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.0
10°-20°	219.9	8.7
20°-30°	335.1	13.2
30°-40°	410.0	16.1
40°-50°	441.2	17.4
50°-60°	427.3	16.8
60°-70°	362.0	14.3
70°-80°	218.8	8.6
80°-90°	48.1	1.9
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°	631.6	24.9
0°-40°	1041.6	41.0
0°-60°	1910.1	75.2
0°-90°	2539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	804	804	810	806	800	76
15°	775	777	779	781	783	219
25°	716	720	728	734	737	330
35°	635	639	653	670	680	397
45°	532	542	566	601	623	410
55°	408	426	475	530	558	365
65°	270	300	373	432	459	266
75°	128	174	235	239	233	138
85°	32	38	39	38	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.5	806.5	806.5	806.5	806.5
2.5°	816.3	814.3	808.4	804.5	800.5
5°	804.5	804.5	810.4	806.5	800.5
7.5°	798.6	798.6	798.6	808.4	798.6
10°	792.7	794.6	792.7	800.5	792.7
12.5°	786.7	786.7	786.7	788.7	788.7
15°	774.9	776.9	778.8	780.8	782.8
17.5°	763.1	765.0	769.0	771.0	772.9
20°	751.2	753.2	759.1	759.1	763.1
22.5°	735.5	735.5	743.4	745.3	751.2
25°	715.8	719.7	727.6	733.5	737.4
27.5°	698.0	702.0	709.8	717.7	723.6
30°	678.3	682.2	690.1	702.0	709.8
32.5°	656.6	660.5	672.4	686.2	694.1
35°	634.9	638.9	652.7	670.4	680.3
37.5°	611.2	617.2	632.9	652.7	664.5
40°	587.6	593.5	611.2	632.9	650.7
42.5°	560.0	567.9	587.6	617.2	636.9
45°	532.4	542.2	565.9	601.4	623.1
47.5°	502.8	512.7	540.3	585.6	609.3
50°	473.2	485.1	518.6	567.9	593.5
52.5°	441.7	453.5	496.9	550.1	577.7
55°	408.2	425.9	475.2	530.4	558.0
57.5°	374.6	394.4	449.6	508.7	538.3
60°	339.1	362.8	425.9	485.1	514.6
62.5°	305.6	331.3	400.3	459.4	489.0
65°	270.1	299.7	372.7	431.8	459.4
67.5°	232.7	270.1	341.1	398.3	425.9
70°	195.2	238.6	309.6	362.8	388.4
72.5°	161.7	207.0	274.1	319.4	319.4
75°	128.2	173.5	234.6	238.6	232.7
77.5°	98.6	142.0	183.4	167.6	171.5
80°	73.0	108.4	116.3	122.2	126.2
82.5°	49.3	73.0	74.9	78.9	78.9
85°	31.5	37.5	39.4	37.5	35.5
87.5°	13.8	15.8	11.8	7.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)