

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: P230836

Luminaire Tested: **22CZ-LD5-44SE-SQP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230836
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-LD5-44SE-SQP-UNV-L930-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2503.0 lumens
Efficiency: N/A
Efficacy: 62.6 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

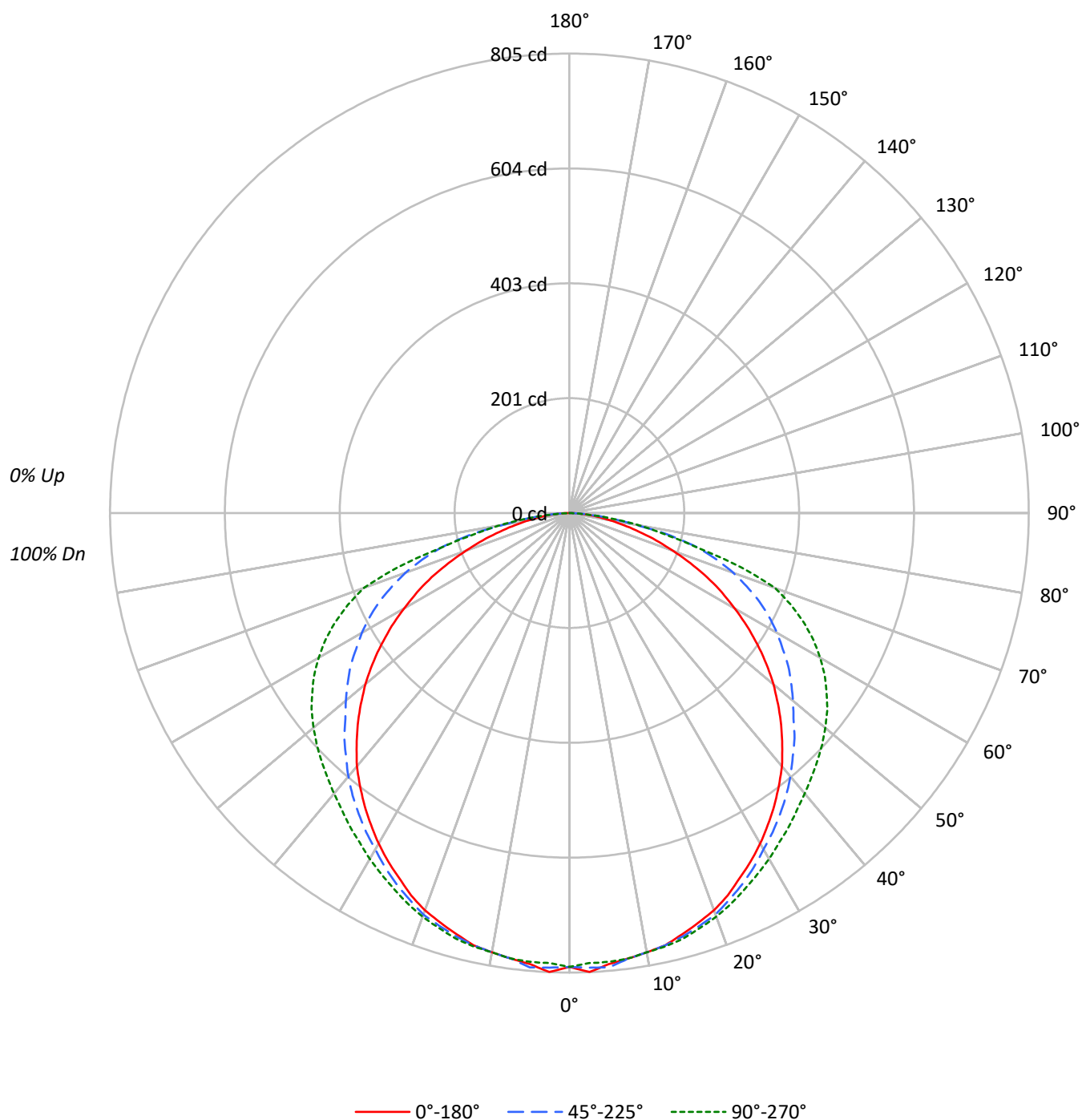
Input Watts (W): 40
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2139	2139	2139
5°	2142	2158	2132
10°	2135	2135	2135
15°	2128	2139	2150
20°	2121	2143	2154
25°	2095	2130	2159
30°	2078	2114	2174
35°	2056	2114	2203
40°	2035	2117	2253
45°	1997	2123	2337
50°	1953	2140	2449
55°	1888	2198	2581
60°	1799	2260	2730
65°	1696	2339	2884
70°	1514	2401	3013
75°	1313	2405	2385
80°	1114	1777	1928
85°	960	1201	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	3.0
10°-20°	216.8	8.7
20°-30°	330.4	13.2
30°-40°	404.2	16.1
40°-50°	434.9	17.4
50°-60°	421.3	16.8
60°-70°	356.9	14.3
70°-80°	215.7	8.6
80°-90°	47.4	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°	622.6	24.9
0°-40°	1026.8	41.0
0°-60°	1883.0	75.2
0°-90°	2503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	793	793	799	795	789	75
15°	764	766	768	770	772	216
25°	706	710	717	723	727	326
35°	626	630	643	661	671	391
45°	525	534	558	593	614	405
55°	402	420	468	523	550	359
65°	266	296	367	426	453	262
75°	126	171	231	235	229	136
85°	31	37	39	37	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.0	795.0	795.0	795.0	795.0
2.5°	804.7	802.8	797.0	793.1	789.2
5°	793.1	793.1	798.9	795.0	789.2
7.5°	787.2	787.2	787.2	797.0	787.2
10°	781.4	783.4	781.4	789.2	781.4
12.5°	775.6	775.6	775.6	777.5	777.5
15°	763.9	765.9	767.8	769.8	771.7
17.5°	752.3	754.2	758.1	760.0	762.0
20°	740.6	742.5	748.4	748.4	752.3
22.5°	725.0	725.0	732.8	734.8	740.6
25°	705.6	709.5	717.3	723.1	727.0
27.5°	688.1	692.0	699.8	707.5	713.4
30°	668.7	672.6	680.3	692.0	699.8
32.5°	647.3	651.2	662.8	676.4	684.2
35°	625.9	629.8	643.4	660.9	670.6
37.5°	602.6	608.4	624.0	643.4	655.1
40°	579.3	585.1	602.6	624.0	641.5
42.5°	552.0	559.8	579.3	608.4	627.9
45°	524.8	534.5	557.9	592.9	614.2
47.5°	495.7	505.4	532.6	577.3	600.6
50°	466.5	478.2	511.2	559.8	585.1
52.5°	435.4	447.1	489.8	542.3	569.5
55°	402.4	419.9	468.5	522.9	550.1
57.5°	369.3	388.8	443.2	501.5	530.7
60°	334.3	357.7	419.9	478.2	507.3
62.5°	301.3	326.6	394.6	452.9	482.1
65°	266.3	295.5	367.4	425.7	452.9
67.5°	229.4	266.3	336.3	392.7	419.9
70°	192.4	235.2	305.2	357.7	382.9
72.5°	159.4	204.1	270.2	314.9	314.9
75°	126.3	171.1	231.3	235.2	229.4
77.5°	97.2	140.0	180.8	165.2	169.1
80°	71.9	106.9	114.7	120.5	124.4
82.5°	48.6	71.9	73.9	77.8	77.8
85°	31.1	36.9	38.9	36.9	35.0
87.5°	13.6	15.6	11.7	7.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)