

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: P230835

Luminaire Tested: **22CZ-LD5-39SE-SQP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230835
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-LD5-39SE-SQP-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2626.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

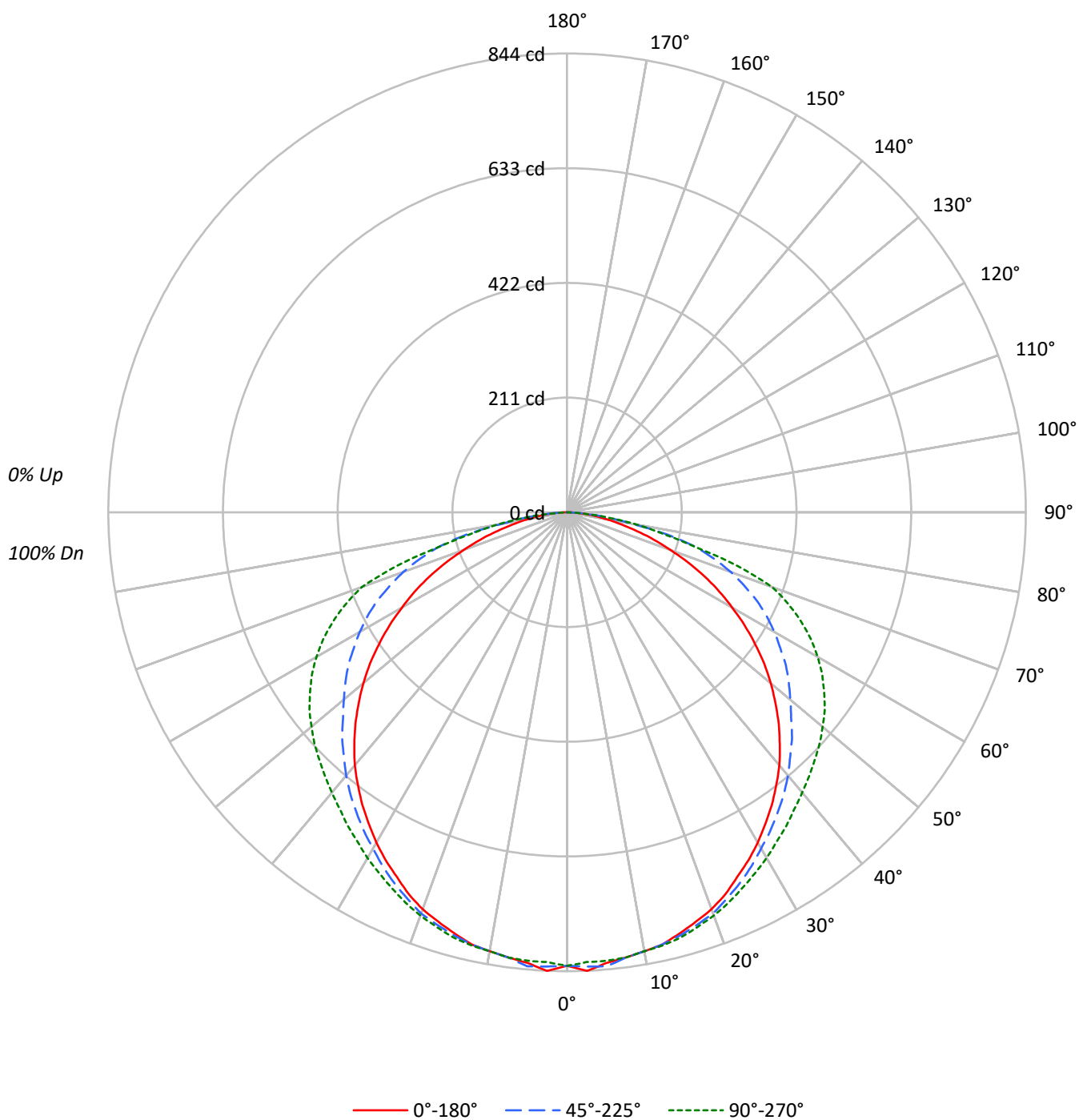
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	105	101	97	93		97	93	90		93	90	87		89	87	85
2	98	89	82	76	95	87	81	75		84	78	73		80	76	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	59		68	63	58
4	81	68	59	52	79	67	58	52		64	57	51		62	56	50		60	54	50
5	74	61	52	45	72	60	51	44		58	50	44		56	49	43		54	48	43
6	68	55	45	39	66	54	45	39		52	44	38		50	43	38		48	42	37
7	63	49	40	34	62	49	40	34		47	39	34		45	39	33		44	38	33
8	59	45	36	30	57	44	36	30		43	35	30		42	35	30		40	34	29
9	55	41	33	27	54	41	33	27		39	32	27		38	32	27		37	31	27
10	51	38	30	24	50	37	30	24		36	29	24		35	29	24		35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2245	2245	2245
5°	2247	2264	2237
10°	2240	2240	2240
15°	2233	2244	2255
20°	2225	2248	2260
25°	2198	2234	2265
30°	2180	2218	2281
35°	2157	2217	2311
40°	2135	2221	2364
45°	2095	2227	2452
50°	2049	2245	2570
55°	1980	2306	2708
60°	1888	2371	2865
65°	1779	2454	3026
70°	1589	2519	3161
75°	1379	2523	2502
80°	1170	1864	2022
85°	1007	1260	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	3.0
10°-20°	227.4	8.7
20°-30°	346.6	13.2
30°-40°	424.1	16.1
40°-50°	456.3	17.4
50°-60°	442.0	16.8
60°-70°	374.4	14.3
70°-80°	226.3	8.6
80°-90°	49.7	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°	653.2	24.9
0°-40°	1077.3	41.0
0°-60°	1975.5	75.2
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	832	838	834	828	79
15°	802	804	806	808	810	226
25°	740	744	752	759	763	342
35°	657	661	675	693	704	411
45°	551	561	585	622	644	424
55°	422	440	492	549	577	377
65°	279	310	385	447	475	275
75°	133	180	243	247	241	142
85°	33	39	41	39	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.1	834.1	834.1	834.1	834.1
2.5°	844.3	842.2	836.1	832.0	828.0
5°	832.0	832.0	838.2	834.1	828.0
7.5°	825.9	825.9	825.9	836.1	825.9
10°	819.8	821.9	819.8	828.0	819.8
12.5°	813.7	813.7	813.7	815.7	815.7
15°	801.5	803.5	805.5	807.6	809.6
17.5°	789.2	791.3	795.3	797.4	799.4
20°	777.0	779.0	785.1	785.1	789.2
22.5°	760.7	760.7	768.8	770.9	777.0
25°	740.3	744.4	752.5	758.6	762.7
27.5°	721.9	726.0	734.2	742.3	748.4
30°	701.5	705.6	713.8	726.0	734.2
32.5°	679.1	683.2	695.4	709.7	717.8
35°	656.7	660.7	675.0	693.4	703.6
37.5°	632.2	638.3	654.6	675.0	687.3
40°	607.7	613.8	632.2	654.6	673.0
42.5°	579.2	587.3	607.7	638.3	658.7
45°	550.6	560.8	585.3	622.0	644.4
47.5°	520.0	530.2	558.8	605.7	630.2
50°	489.4	501.7	536.3	587.3	613.8
52.5°	456.8	469.0	513.9	569.0	597.5
55°	422.1	440.5	491.5	548.6	577.1
57.5°	387.5	407.9	465.0	526.1	556.7
60°	350.8	375.2	440.5	501.7	532.3
62.5°	316.1	342.6	414.0	475.2	505.8
65°	279.4	310.0	385.4	446.6	475.2
67.5°	240.6	279.4	352.8	411.9	440.5
70°	201.9	246.8	320.2	375.2	401.7
72.5°	167.2	214.1	283.5	330.4	330.4
75°	132.6	179.5	242.7	246.8	240.6
77.5°	102.0	146.8	189.7	173.3	177.4
80°	75.5	112.2	120.3	126.4	130.5
82.5°	51.0	75.5	77.5	81.6	81.6
85°	32.6	38.7	40.8	38.7	36.7
87.5°	14.3	16.3	12.2	8.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)