

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: P230877

Luminaire Tested: **22CZ-LD5-39SE-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39SE-RDP-UNV-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RDP LENS
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2245.0 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

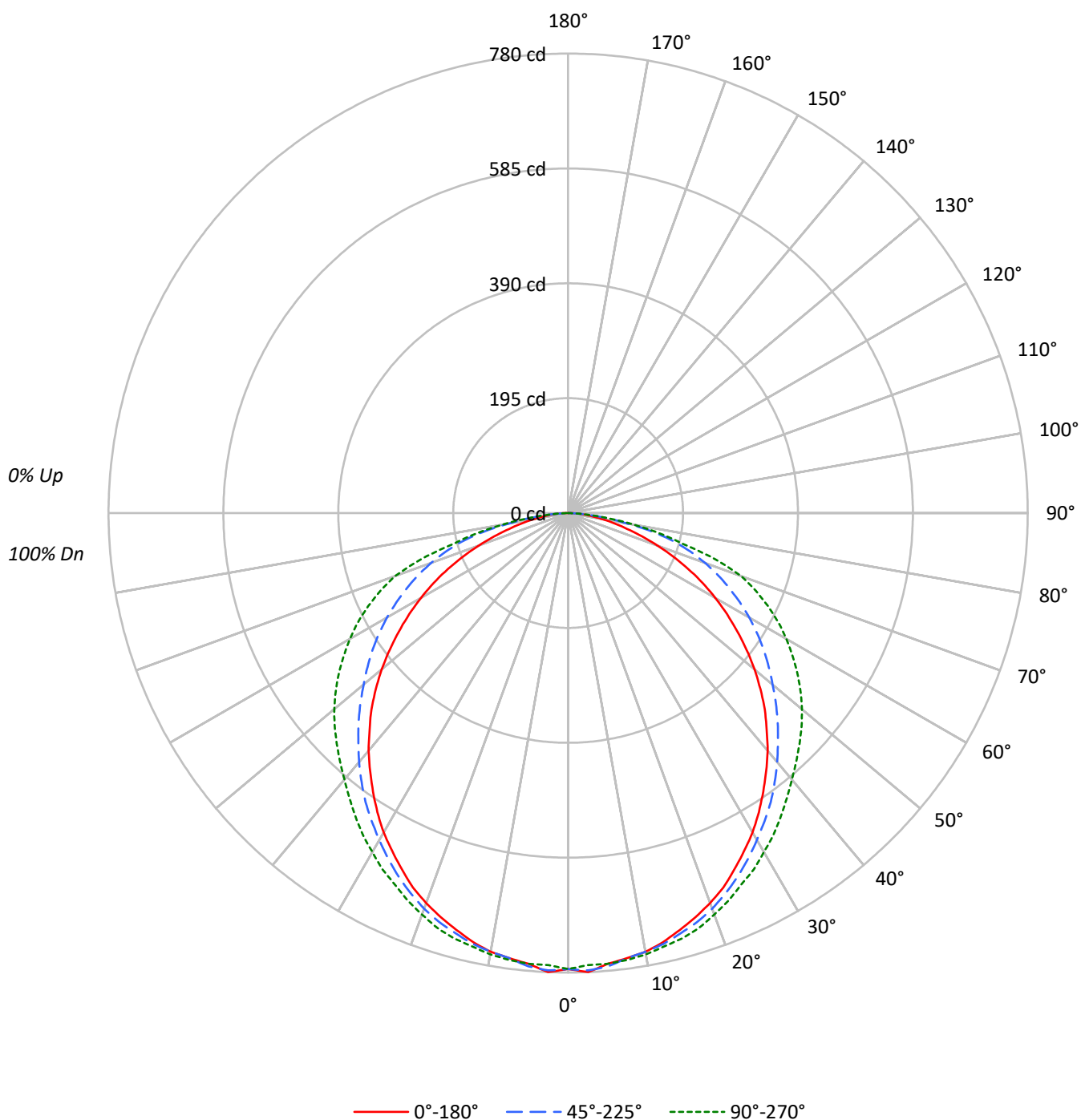
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2083	2083	2083
5°	2075	2087	2075
10°	2066	2066	2079
15°	2041	2057	2082
20°	2017	2047	2077
25°	1982	2021	2065
30°	1945	1991	2065
35°	1896	1969	2066
40°	1851	1939	2074
45°	1797	1915	2112
50°	1729	1896	2169
55°	1645	1902	2229
60°	1553	1912	2302
65°	1432	1922	2384
70°	1269	1944	2457
75°	1077	1939	2093
80°	894	1559	1743
85°	778	1050	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.3
10°-20°	208.6	9.3
20°-30°	313.8	14.0
30°-40°	376.1	16.8
40°-50°	392.2	17.5
50°-60°	365.1	16.3
60°-70°	296.5	13.2
70°-80°	178.7	8.0
80°-90°	41.0	1.8
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°	595.5	26.5
0°-40°	971.6	43.3
0°-60°	1728.9	77.0
0°-90°	2245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	768	768	772	774	768	73
15°	733	736	738	743	747	207
25°	667	672	681	690	696	308
35°	577	585	599	617	629	361
45°	472	481	503	536	555	363
55°	351	366	406	450	475	314
65°	225	249	302	349	374	222
75°	104	138	186	198	201	112
85°	25	31	34	33	33	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	774.0	774.0	774.0	774.0	774.0
2.5°	779.9	778.4	777.0	772.5	768.1
5°	768.1	768.1	772.5	774.0	768.1
7.5°	762.2	762.2	762.2	768.1	765.1
10°	756.2	756.2	756.2	760.7	760.7
12.5°	745.9	747.4	748.8	750.3	753.3
15°	732.6	735.5	738.5	742.9	747.4
17.5°	719.2	722.2	728.1	732.6	738.5
20°	704.4	707.4	714.8	719.2	725.2
22.5°	688.2	689.6	698.5	704.4	711.8
25°	667.4	671.9	680.8	689.6	695.6
27.5°	646.7	651.2	661.5	673.4	682.2
30°	626.0	630.4	640.8	655.6	664.5
32.5°	602.3	608.2	620.1	637.8	648.2
35°	577.2	584.6	599.4	617.1	629.0
37.5°	552.0	559.4	575.7	597.9	609.7
40°	526.8	534.2	552.0	575.7	590.5
42.5°	498.7	507.6	526.8	555.0	572.7
45°	472.1	481.0	503.2	535.7	555.0
47.5°	442.5	452.9	478.0	515.0	537.2
50°	412.9	424.7	452.9	494.3	518.0
52.5°	381.8	395.1	429.2	472.1	497.2
55°	350.7	365.5	405.5	449.9	475.1
57.5°	319.7	335.9	380.3	426.2	451.4
60°	288.6	306.3	355.2	402.5	427.7
62.5°	257.5	276.7	328.5	375.9	402.5
65°	224.9	248.6	301.9	349.3	374.4
67.5°	192.4	220.5	275.3	321.1	344.8
70°	161.3	192.4	247.1	290.1	312.3
72.5°	131.7	164.3	217.5	254.5	263.4
75°	103.6	137.6	186.5	198.3	201.3
77.5°	79.9	111.0	148.0	151.0	158.4
80°	57.7	84.4	100.6	109.5	112.5
82.5°	40.0	57.7	66.6	68.1	69.6
85°	25.2	31.1	34.0	32.6	32.6
87.5°	13.3	11.8	10.4	7.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)