

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: P230610

Luminaire Tested: **22CZ-LD5-32SE-S-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-32SE-S-UNV-L940-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SMOOTH LENS
Light Source: (56) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2883.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

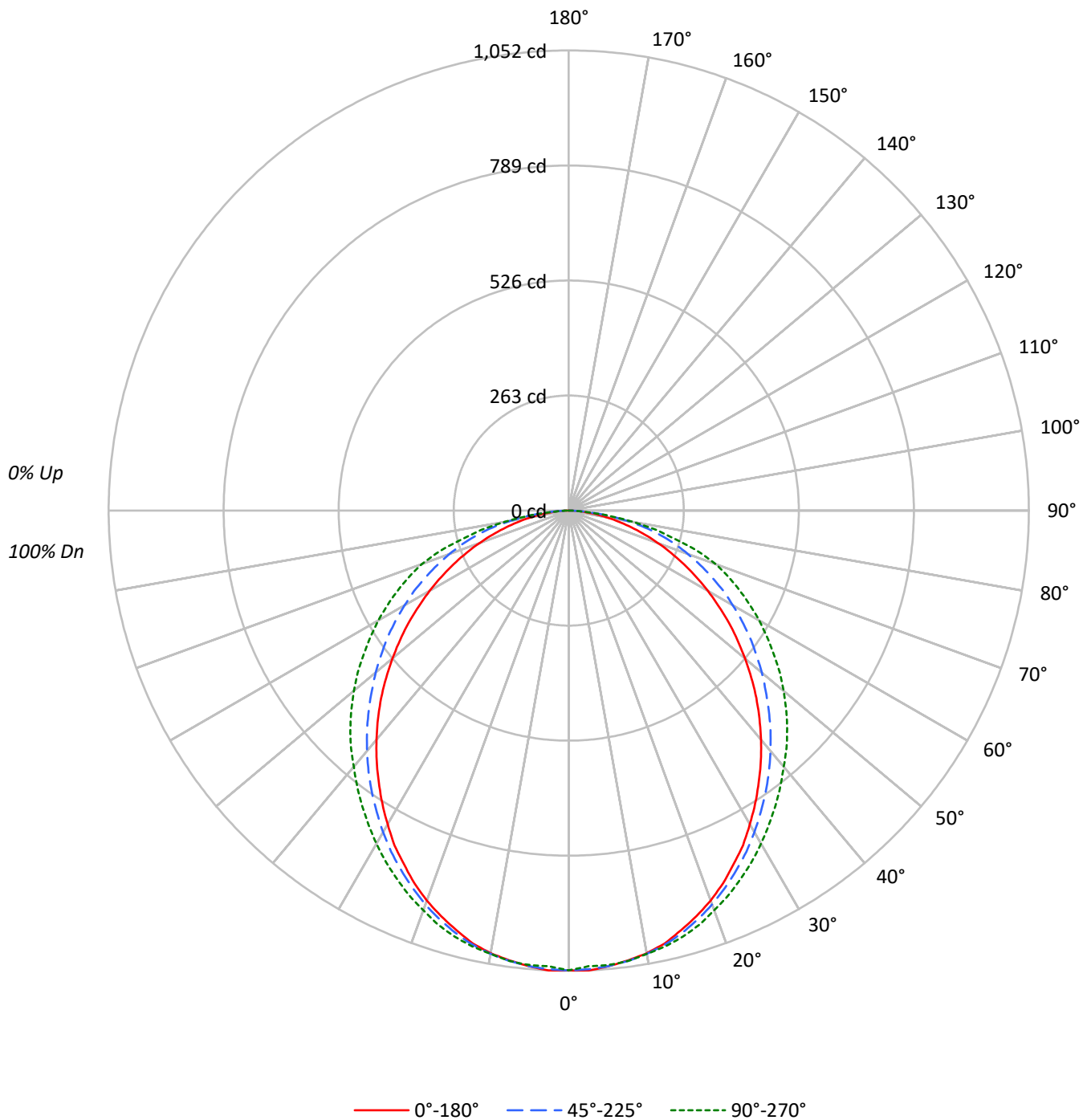
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2828	2828	2828
5°	2824	2824	2817
10°	2808	2811	2811
15°	2766	2785	2808
20°	2716	2744	2784
25°	2648	2693	2759
30°	2573	2638	2732
35°	2488	2579	2707
40°	2403	2520	2685
45°	2308	2461	2688
50°	2203	2412	2684
55°	2099	2371	2683
60°	1975	2333	2706
65°	1852	2301	2742
70°	1710	2277	2811
75°	1541	2260	2606
80°	1351	2103	2275
85°	1112	1581	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.4
10°-20°	281.9	9.8
20°-30°	418.8	14.5
30°-40°	492.9	17.1
40°-50°	502.5	17.4
50°-60°	453.2	15.7
60°-70°	357.0	12.4
70°-80°	220.2	7.6
80°-90°	57.2	2.0
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°	800.0	27.7
0°-40°	1292.9	44.8
0°-60°	2248.6	78.0
0°-90°	2883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1046	1047	1046	1044	1043	99
15°	993	997	1000	1005	1008	280
25°	892	897	907	922	929	411
35°	758	766	785	810	824	474
45°	606	616	647	686	706	468
55°	447	462	505	551	572	399
65°	291	312	361	407	431	288
75°	148	173	217	242	251	158
85°	36	46	51	48	46	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1052.4	1052.4	1049.6	1046.9	1042.7
5°	1045.5	1046.9	1045.5	1044.1	1042.7
7.5°	1037.2	1038.6	1038.6	1038.6	1038.6
10°	1027.5	1028.9	1028.9	1028.9	1028.9
12.5°	1013.6	1015.0	1016.4	1017.8	1020.6
15°	992.9	997.0	999.8	1005.3	1008.1
17.5°	972.1	976.2	980.4	987.3	992.9
20°	948.6	951.3	958.2	966.6	972.1
22.5°	922.2	926.4	933.3	944.4	952.7
25°	891.8	897.3	907.0	922.2	929.2
27.5°	862.7	866.9	879.3	895.9	905.6
30°	828.1	833.6	848.9	869.6	879.3
32.5°	793.5	800.4	817.0	840.5	851.6
35°	757.5	765.8	785.2	810.1	823.9
37.5°	721.5	729.8	751.9	779.6	794.8
40°	684.1	692.4	717.3	747.8	764.4
42.5°	645.3	655.0	682.7	717.3	736.7
45°	606.5	616.2	646.7	685.5	706.2
47.5°	566.4	577.4	610.7	653.6	674.4
50°	526.2	538.7	576.1	620.4	641.1
52.5°	486.0	499.9	540.1	585.7	607.9
55°	447.3	462.5	505.4	551.1	571.9
57.5°	405.7	423.7	469.4	513.7	537.3
60°	367.0	386.3	433.4	477.7	502.7
62.5°	328.2	349.0	398.8	443.1	466.7
65°	290.8	311.6	361.4	407.1	430.7
67.5°	253.4	276.9	325.4	371.1	394.7
70°	217.4	242.3	289.4	333.7	357.3
72.5°	182.8	207.7	254.8	296.3	310.2
75°	148.2	173.1	217.4	242.3	250.6
77.5°	116.3	139.9	178.6	193.9	204.9
80°	87.2	108.0	135.7	145.4	146.8
82.5°	59.5	77.5	94.2	95.5	94.2
85°	36.0	45.7	51.2	48.5	45.7
87.5°	16.6	18.0	16.6	11.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)