

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: P263158

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2291.9 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

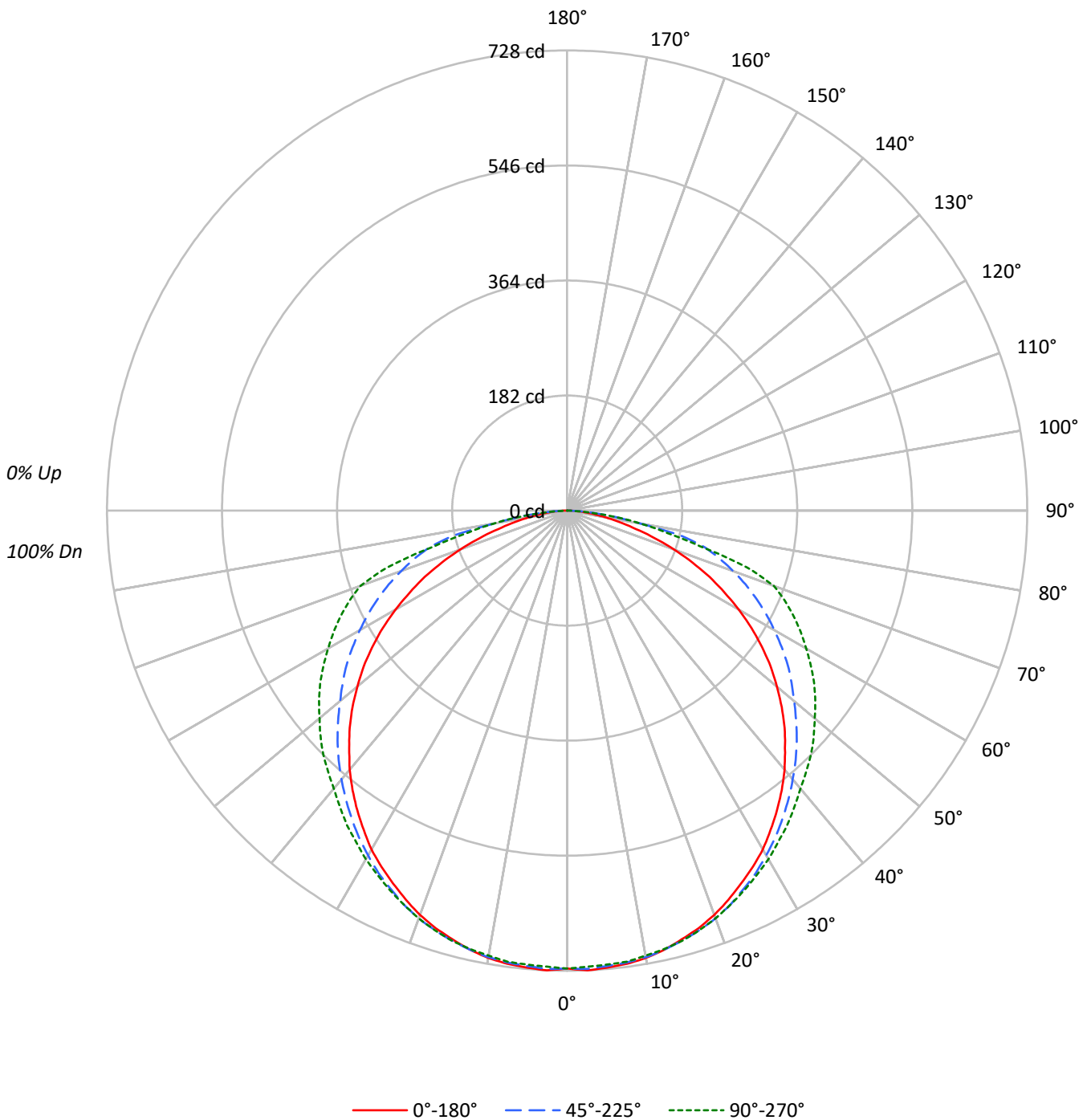
Input Watts (W): 28.809168
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	975	975	975
5°	980	977	974
10°	982	980	977
15°	978	981	981
20°	975	983	983
25°	967	981	984
30°	962	978	990
35°	951	976	998
40°	940	975	1009
45°	926	978	1038
50°	907	981	1070
55°	883	1000	1119
60°	844	1019	1175
65°	791	1052	1259
70°	708	1099	1369
75°	585	1175	1132
80°	477	908	917
85°	384	604	567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.0
10°-20°	198.6	8.7
20°-30°	303.5	13.2
30°-40°	371.1	16.2
40°-50°	397.1	17.3
50°-60°	380.3	16.6
60°-70°	321.7	14.0
70°-80°	203.9	8.9
80°-90°	46.9	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°	570.8	24.9
0°-40°	942.0	41.1
0°-60°	1719.4	75.0
0°-90°	2291.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	726	722	723	722	721	69
15°	702	701	704	704	704	198
25°	651	651	661	663	663	300
35°	579	582	594	603	607	362
45°	487	495	514	535	546	375
55°	376	388	426	462	477	336
65°	249	272	330	375	395	245
75°	112	159	226	225	218	122
85°	25	38	39	36	37	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.5	724.5	724.5	724.5	724.5
2.5°	728.1	724.5	725.7	724.5	722.1
5°	725.7	722.1	723.3	722.1	721.0
7.5°	723.3	719.8	721.0	719.8	719.8
10°	718.6	715.0	717.4	716.2	715.0
12.5°	711.5	709.1	711.5	710.3	710.3
15°	702.0	700.8	704.4	704.4	704.4
17.5°	692.5	691.4	696.1	696.1	696.1
20°	680.7	679.5	686.6	686.6	686.6
22.5°	666.5	665.3	674.8	674.8	674.8
25°	651.1	651.1	660.6	662.9	662.9
27.5°	635.7	635.7	646.4	649.9	649.9
30°	619.1	619.1	629.8	634.5	636.9
32.5°	599.0	601.4	613.2	619.1	621.5
35°	578.9	582.4	594.3	602.6	607.3
37.5°	557.6	561.1	575.3	584.8	590.7
40°	535.1	539.8	555.2	567.1	574.2
42.5°	510.2	517.3	535.1	550.5	560.0
45°	486.6	494.8	513.8	535.1	545.7
47.5°	460.5	470.0	491.3	518.5	529.2
50°	433.3	442.8	468.8	499.6	511.4
52.5°	406.1	416.7	447.5	480.6	494.8
55°	376.5	388.3	426.2	461.7	477.1
57.5°	345.7	359.9	402.5	440.4	457.0
60°	313.7	331.5	378.8	419.1	436.8
62.5°	280.6	301.9	355.1	397.8	416.7
65°	248.6	272.3	330.3	375.3	395.4
67.5°	214.3	243.9	305.4	354.0	372.9
70°	179.9	214.3	279.4	329.1	348.0
72.5°	145.6	187.0	253.3	298.3	298.3
75°	112.5	158.6	226.1	224.9	217.8
77.5°	85.2	132.6	185.9	158.6	159.8
80°	61.6	106.5	117.2	117.2	118.4
82.5°	41.4	81.7	75.8	74.6	76.9
85°	24.9	37.9	39.1	35.5	36.7
87.5°	11.8	13.0	10.7	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)