

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: P263129

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263129
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-LD5-35SE-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2472.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

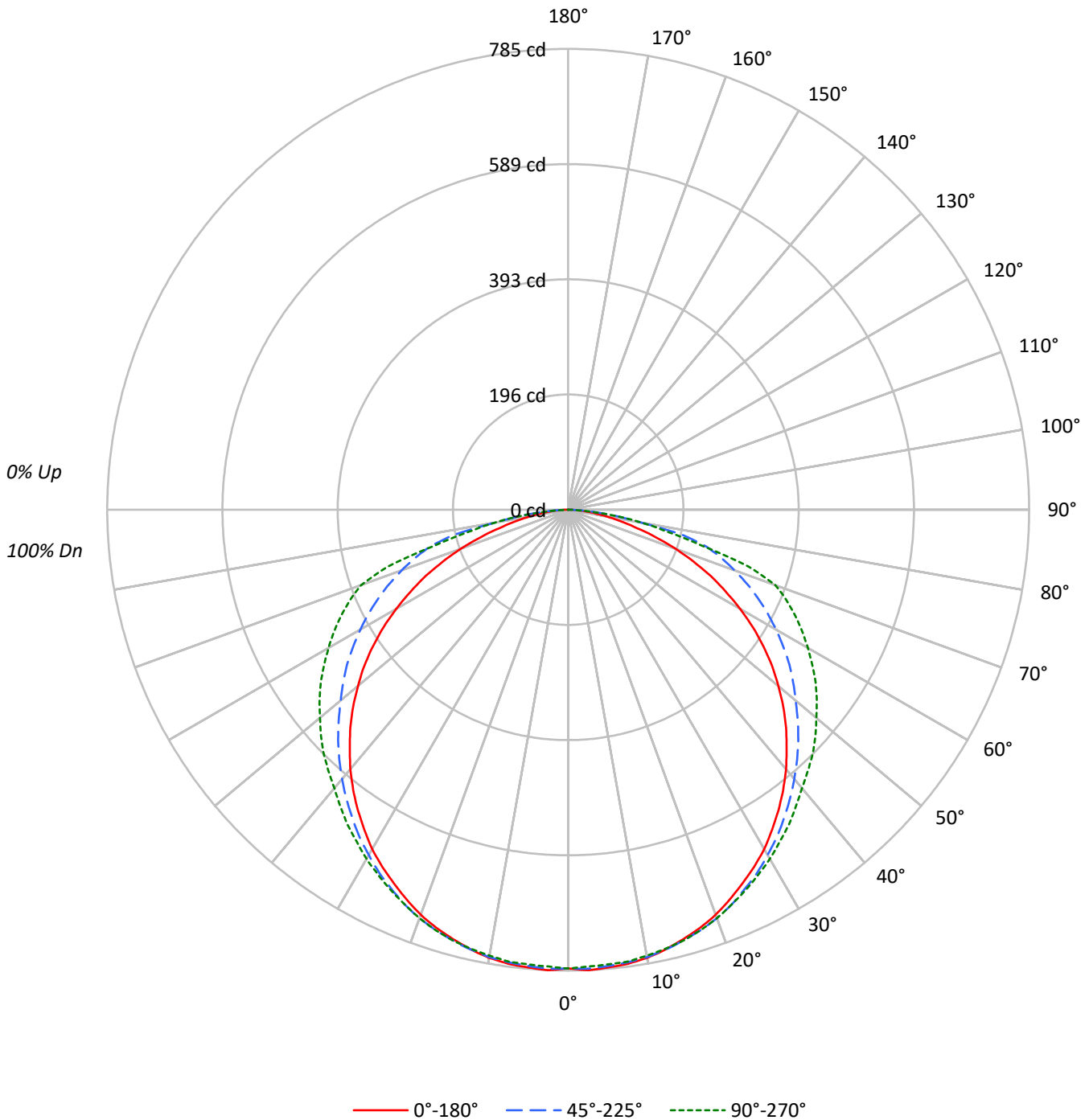
Input Watts (W): 26.63892
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1051	1051	1051
5°	1057	1054	1050
10°	1059	1057	1054
15°	1055	1058	1058
20°	1051	1060	1060
25°	1043	1058	1061
30°	1038	1055	1067
35°	1026	1053	1076
40°	1014	1052	1088
45°	999	1055	1120
50°	978	1058	1155
55°	952	1078	1207
60°	911	1100	1268
65°	854	1134	1358
70°	764	1185	1477
75°	631	1268	1221
80°	514	979	989
85°	414	650	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.0
10°-20°	214.2	8.7
20°-30°	327.3	13.2
30°-40°	400.3	16.2
40°-50°	428.3	17.3
50°-60°	410.2	16.6
60°-70°	347.0	14.0
70°-80°	219.9	8.9
80°-90°	50.6	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°	615.7	24.9
0°-40°	1016.0	41.1
0°-60°	1854.5	75.0
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	779	780	779	778	74
15°	757	756	760	760	760	214
25°	702	702	712	715	715	324
35°	624	628	641	650	655	391
45°	525	534	554	577	589	404
55°	406	419	460	498	515	362
65°	268	294	356	405	426	264
75°	121	171	244	243	235	132
85°	27	41	42	38	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	781.4	781.4	781.4	781.4	781.4
2.5°	785.3	781.4	782.7	781.4	778.9
5°	782.7	778.9	780.2	778.9	777.6
7.5°	780.2	776.3	777.6	776.3	776.3
10°	775.1	771.2	773.8	772.5	771.2
12.5°	767.4	764.8	767.4	766.1	766.1
15°	757.2	755.9	759.7	759.7	759.7
17.5°	747.0	745.7	750.8	750.8	750.8
20°	734.2	732.9	740.6	740.6	740.6
22.5°	718.9	717.6	727.8	727.8	727.8
25°	702.3	702.3	712.5	715.0	715.0
27.5°	685.7	685.7	697.2	701.0	701.0
30°	667.8	667.8	679.3	684.4	687.0
32.5°	646.1	648.7	661.4	667.8	670.4
35°	624.4	628.2	641.0	649.9	655.0
37.5°	601.4	605.2	620.6	630.8	637.2
40°	577.1	582.3	598.9	611.6	619.3
42.5°	550.3	558.0	577.1	593.7	604.0
45°	524.8	533.7	554.2	577.1	588.6
47.5°	496.7	506.9	529.9	559.3	570.8
50°	467.3	477.6	505.6	538.8	551.6
52.5°	438.0	449.5	482.7	518.4	533.7
55°	406.0	418.8	459.7	498.0	514.6
57.5°	372.8	388.2	434.1	475.0	492.9
60°	338.4	357.5	408.6	452.0	471.2
62.5°	302.6	325.6	383.1	429.0	449.5
65°	268.1	293.7	356.2	404.8	426.5
67.5°	231.1	263.0	329.4	381.8	402.2
70°	194.1	231.1	301.3	355.0	375.4
72.5°	157.1	201.7	273.3	321.8	321.8
75°	121.3	171.1	243.9	242.6	234.9
77.5°	91.9	143.0	200.5	171.1	172.4
80°	66.4	114.9	126.4	126.4	127.7
82.5°	44.7	88.1	81.7	80.4	83.0
85°	26.8	40.9	42.1	38.3	39.6
87.5°	12.8	14.0	11.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)