

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: P263213

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263213
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-LD5-45SE-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.2 lumens
Efficiency: N/A
Efficacy: 71.6 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

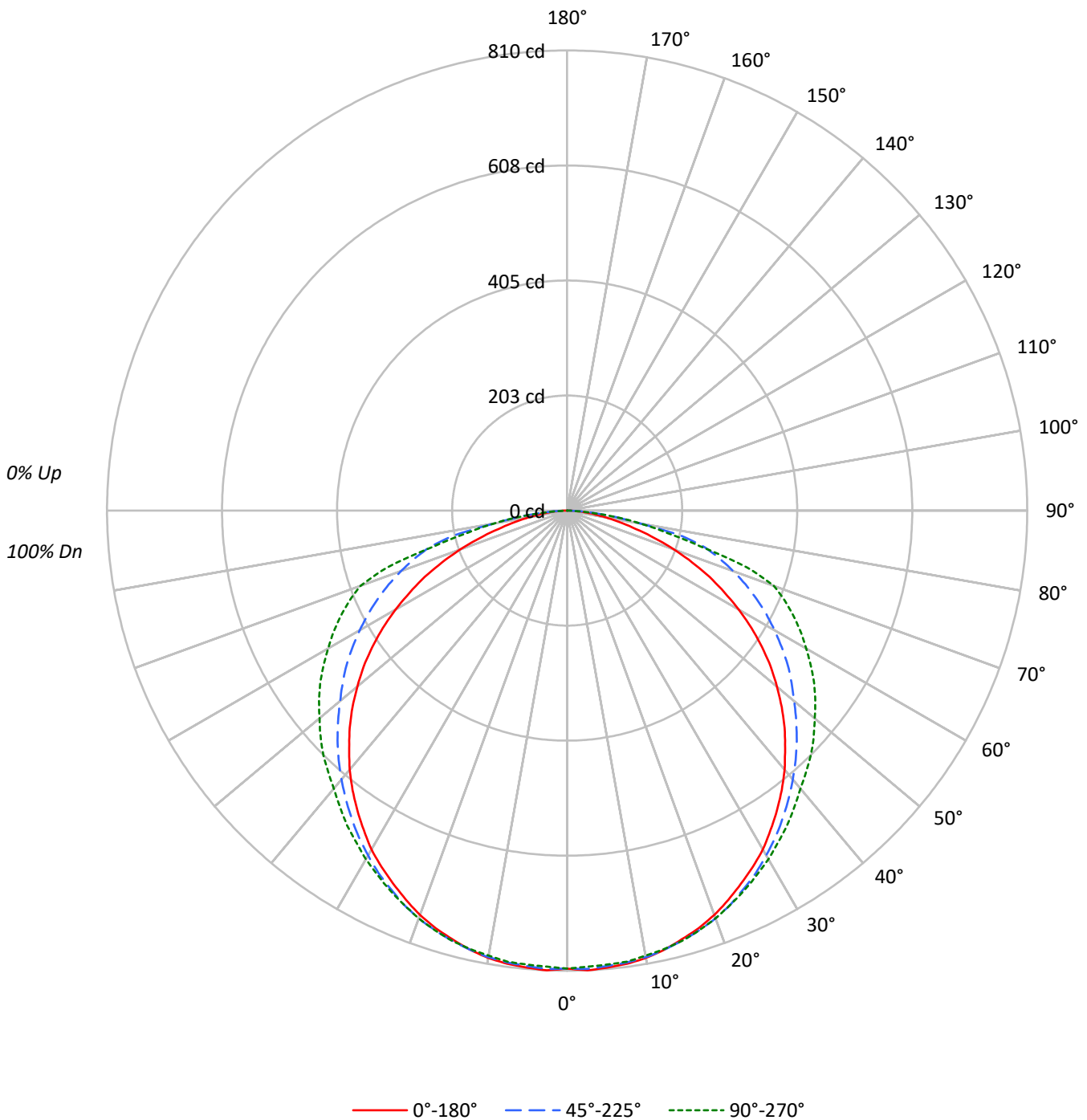
Input Watts (W): 35.632392
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1085	1085	1085
5°	1091	1087	1083
10°	1092	1091	1087
15°	1088	1092	1092
20°	1084	1094	1094
25°	1076	1091	1095
30°	1070	1089	1101
35°	1058	1086	1110
40°	1046	1085	1122
45°	1030	1088	1155
50°	1009	1092	1191
55°	983	1112	1245
60°	939	1134	1308
65°	881	1170	1401
70°	788	1223	1524
75°	650	1308	1260
80°	531	1010	1020
85°	428	672	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.0
10°-20°	220.9	8.7
20°-30°	337.7	13.2
30°-40°	413.0	16.2
40°-50°	441.9	17.3
50°-60°	423.1	16.6
60°-70°	357.9	14.0
70°-80°	226.9	8.9
80°-90°	52.2	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°	635.2	24.9
0°-40°	1048.1	41.1
0°-60°	1913.1	75.0
0°-90°	2550.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	808	804	805	804	802	77
15°	781	780	784	784	784	221
25°	724	724	735	738	738	334
35°	644	648	661	670	676	403
45°	541	551	572	595	607	417
55°	419	432	474	514	531	374
65°	277	303	368	418	440	272
75°	125	176	252	250	242	136
85°	28	42	44	40	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.2	806.2	806.2	806.2	806.2
2.5°	810.1	806.2	807.5	806.2	803.5
5°	807.5	803.5	804.8	803.5	802.2
7.5°	804.8	800.9	802.2	800.9	800.9
10°	799.6	795.6	798.2	796.9	795.6
12.5°	791.7	789.0	791.7	790.3	790.3
15°	781.1	779.8	783.8	783.8	783.8
17.5°	770.6	769.3	774.5	774.5	774.5
20°	757.4	756.1	764.0	764.0	764.0
22.5°	741.6	740.3	750.8	750.8	750.8
25°	724.5	724.5	735.0	737.7	737.7
27.5°	707.4	707.4	719.2	723.2	723.2
30°	688.9	688.9	700.8	706.0	708.7
32.5°	666.5	669.2	682.3	688.9	691.6
35°	644.1	648.1	661.3	670.5	675.7
37.5°	620.4	624.4	640.2	650.7	657.3
40°	595.4	600.7	617.8	631.0	638.9
42.5°	567.7	575.6	595.4	612.5	623.1
45°	541.4	550.6	571.7	595.4	607.2
47.5°	512.4	522.9	546.7	577.0	588.8
50°	482.1	492.6	521.6	555.9	569.0
52.5°	451.8	463.7	497.9	534.8	550.6
55°	418.9	432.1	474.2	513.7	530.8
57.5°	384.6	400.4	447.9	490.0	508.5
60°	349.1	368.8	421.5	466.3	486.1
62.5°	312.2	335.9	395.2	442.6	463.7
65°	276.6	303.0	367.5	417.6	440.0
67.5°	238.4	271.4	339.8	393.9	414.9
70°	200.2	238.4	310.9	366.2	387.3
72.5°	162.0	208.1	281.9	331.9	331.9
75°	125.1	176.5	251.6	250.3	242.4
77.5°	94.8	147.5	206.8	176.5	177.8
80°	68.5	118.6	130.4	130.4	131.7
82.5°	46.1	90.9	84.3	83.0	85.6
85°	27.7	42.2	43.5	39.5	40.8
87.5°	13.2	14.5	11.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)