

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: P263386

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263386
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-LD5-45-SQP-UNV-L92765-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: 2540.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

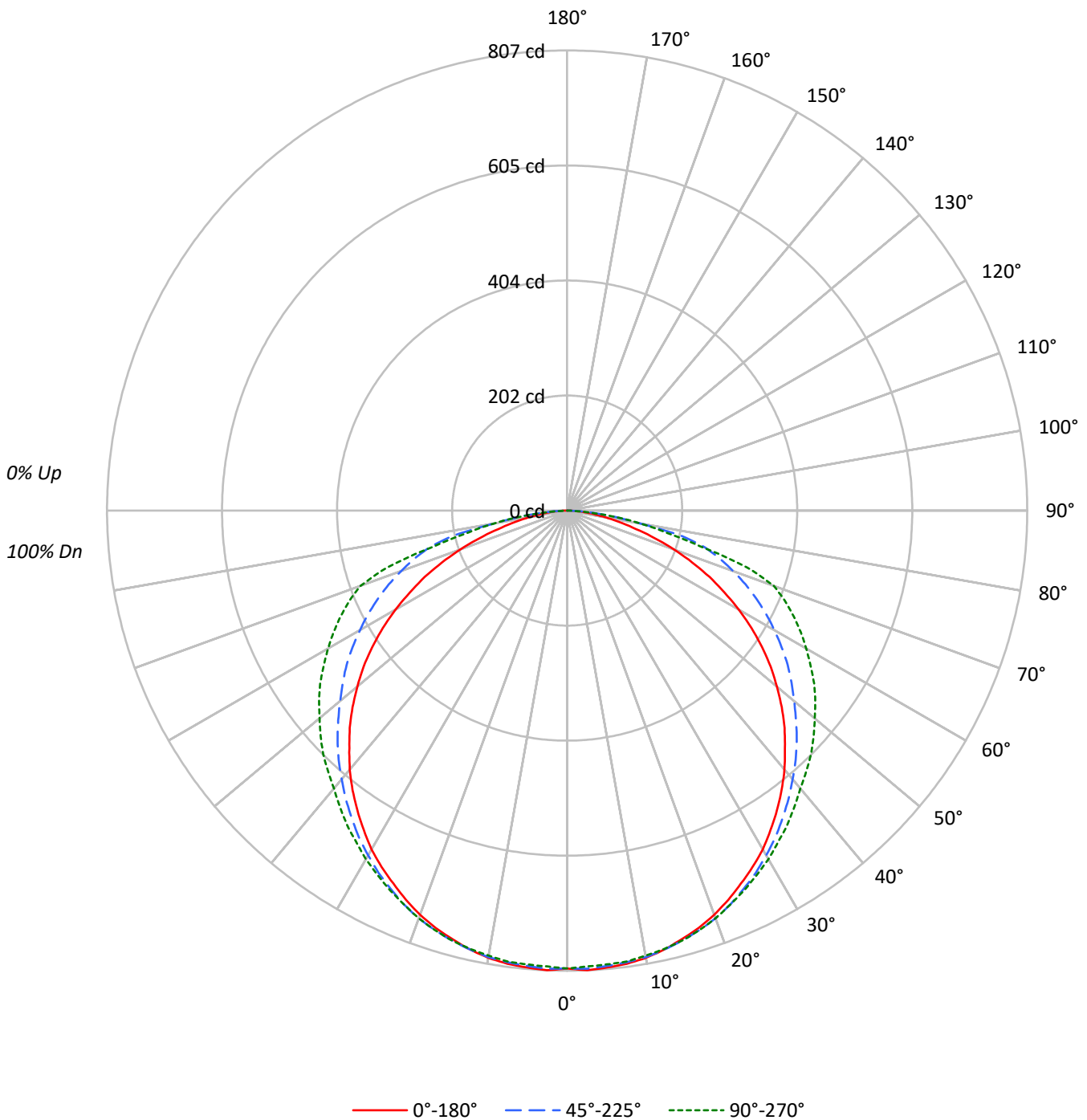
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1080	1080	1080
5°	1086	1083	1079
10°	1088	1086	1083
15°	1084	1087	1087
20°	1080	1090	1090
25°	1071	1087	1091
30°	1066	1084	1097
35°	1054	1082	1106
40°	1042	1081	1118
45°	1026	1083	1151
50°	1005	1088	1186
55°	979	1108	1240
60°	936	1130	1303
65°	877	1165	1395
70°	784	1218	1517
75°	648	1303	1255
80°	528	1007	1017
85°	426	668	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.0
10°-20°	220.1	8.7
20°-30°	336.3	13.2
30°-40°	411.3	16.2
40°-50°	440.1	17.3
50°-60°	421.4	16.6
60°-70°	356.5	14.0
70°-80°	226.0	8.9
80°-90°	52.0	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°	632.6	24.9
0°-40°	1043.9	41.1
0°-60°	1905.5	75.0
0°-90°	2540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	804	800	802	800	799	77
15°	778	777	781	781	781	220
25°	722	722	732	735	735	333
35°	642	646	659	668	673	401
45°	539	548	569	593	605	415
55°	417	430	472	512	529	372
65°	276	302	366	416	438	271
75°	125	176	251	249	241	136
85°	28	42	43	39	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.9	802.9	802.9	802.9	802.9
2.5°	806.9	802.9	804.3	802.9	800.3
5°	804.3	800.3	801.6	800.3	799.0
7.5°	801.6	797.7	799.0	797.7	797.7
10°	796.4	792.4	795.1	793.8	792.4
12.5°	788.5	785.9	788.5	787.2	787.2
15°	778.0	776.7	780.6	780.6	780.6
17.5°	767.5	766.2	771.5	771.5	771.5
20°	754.4	753.1	761.0	761.0	761.0
22.5°	738.7	737.3	747.8	747.8	747.8
25°	721.6	721.6	732.1	734.7	734.7
27.5°	704.5	704.5	716.3	720.3	720.3
30°	686.2	686.2	698.0	703.2	705.9
32.5°	663.9	666.5	679.6	686.2	688.8
35°	641.6	645.5	658.6	667.8	673.1
37.5°	618.0	621.9	637.6	648.1	654.7
40°	593.0	598.3	615.3	628.4	636.3
42.5°	565.5	573.3	593.0	610.1	620.6
45°	539.2	548.4	569.4	593.0	604.8
47.5°	510.4	520.9	544.5	574.7	586.5
50°	480.2	490.7	519.6	553.7	566.8
52.5°	450.0	461.8	495.9	532.7	548.4
55°	417.2	430.3	472.3	511.7	528.7
57.5°	383.1	398.8	446.1	488.1	506.4
60°	347.7	367.4	419.8	464.4	484.1
62.5°	310.9	334.6	393.6	440.8	461.8
65°	275.5	301.8	366.0	415.9	438.2
67.5°	237.5	270.3	338.5	392.3	413.3
70°	199.4	237.5	309.6	364.7	385.7
72.5°	161.4	207.3	280.8	330.6	330.6
75°	124.6	175.8	250.6	249.3	241.4
77.5°	94.5	146.9	206.0	175.8	177.1
80°	68.2	118.1	129.9	129.9	131.2
82.5°	45.9	90.5	84.0	82.7	85.3
85°	27.6	42.0	43.3	39.4	40.7
87.5°	13.1	14.4	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)