

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: P263475

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263475
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2445.0 lumens
Efficiency: N/A
Efficacy: 70.7 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

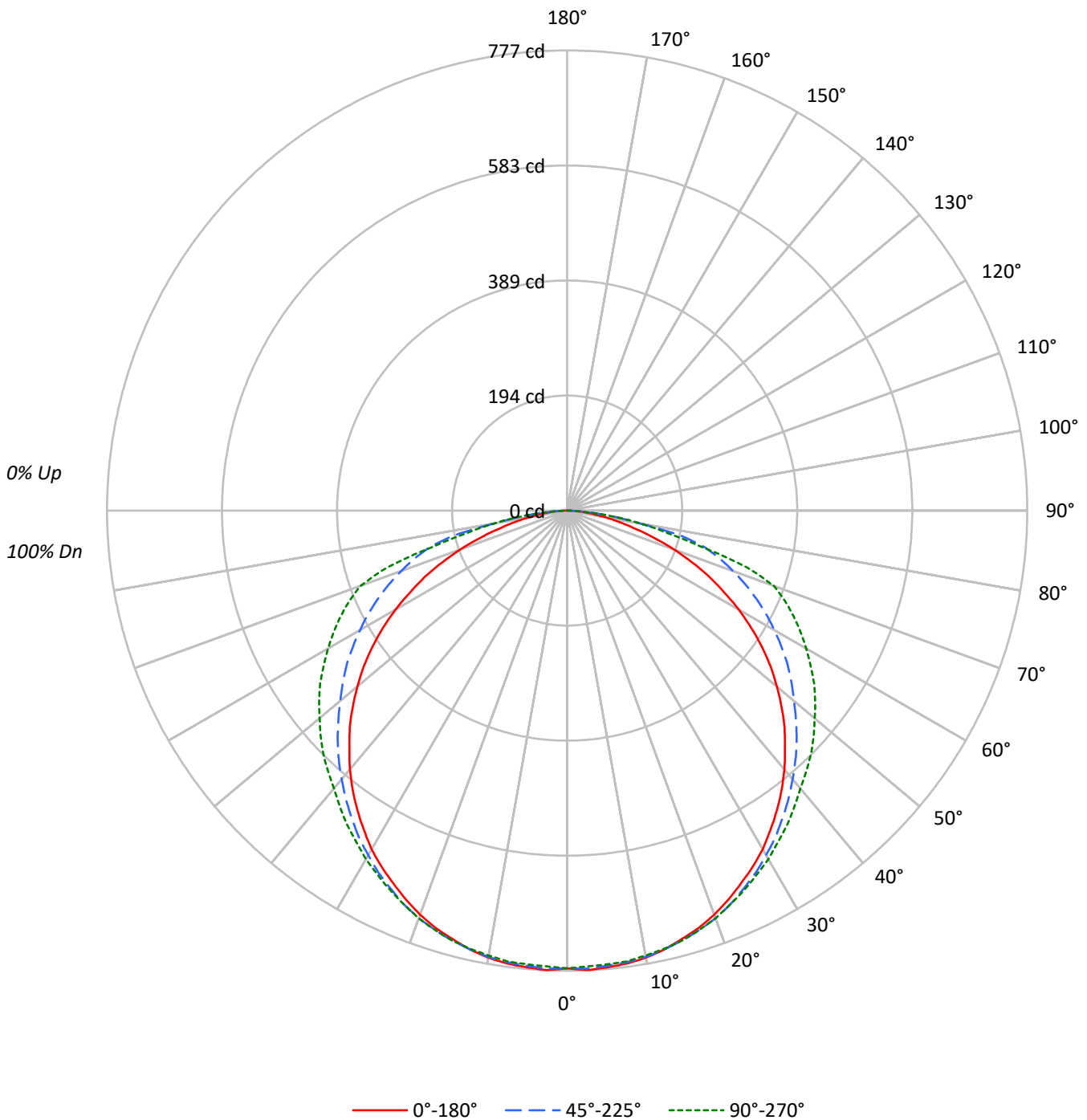
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1040	1040	1040
5°	1046	1042	1039
10°	1047	1046	1042
15°	1043	1047	1047
20°	1040	1049	1049
25°	1031	1046	1050
30°	1026	1044	1056
35°	1014	1041	1064
40°	1003	1040	1076
45°	988	1043	1108
50°	967	1047	1142
55°	942	1067	1194
60°	901	1087	1254
65°	844	1122	1343
70°	755	1173	1461
75°	624	1254	1208
80°	509	969	979
85°	409	644	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.0
10°-20°	211.8	8.7
20°-30°	323.7	13.2
30°-40°	395.9	16.2
40°-50°	423.7	17.3
50°-60°	405.7	16.6
60°-70°	343.2	14.0
70°-80°	217.5	8.9
80°-90°	50.0	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°	609.0	24.9
0°-40°	1004.9	41.1
0°-60°	1834.2	75.0
0°-90°	2445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	774	770	772	770	769	74
15°	749	748	751	751	751	212
25°	695	695	705	707	707	320
35°	618	621	634	643	648	386
45°	519	528	548	571	582	400
55°	402	414	455	492	509	358
65°	265	290	352	400	422	261
75°	120	169	241	240	232	130
85°	26	40	42	38	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.9	772.9	772.9	772.9	772.9
2.5°	776.7	772.9	774.2	772.9	770.4
5°	774.2	770.4	771.6	770.4	769.1
7.5°	771.6	767.9	769.1	767.9	767.9
10°	766.6	762.8	765.3	764.1	762.8
12.5°	759.0	756.5	759.0	757.8	757.8
15°	748.9	747.7	751.4	751.4	751.4
17.5°	738.8	737.5	742.6	742.6	742.6
20°	726.2	724.9	732.5	732.5	732.5
22.5°	711.0	709.8	719.9	719.9	719.9
25°	694.6	694.6	704.7	707.2	707.2
27.5°	678.2	678.2	689.6	693.3	693.3
30°	660.5	660.5	671.9	676.9	679.5
32.5°	639.0	641.6	654.2	660.5	663.0
35°	617.6	621.4	634.0	642.8	647.9
37.5°	594.8	598.6	613.8	623.9	630.2
40°	570.8	575.9	592.3	604.9	612.5
42.5°	544.3	551.9	570.8	587.3	597.4
45°	519.1	527.9	548.1	570.8	582.2
47.5°	491.3	501.4	524.1	553.2	564.5
50°	462.2	472.3	500.1	533.0	545.6
52.5°	433.2	444.5	477.4	512.7	527.9
55°	401.6	414.2	454.7	492.5	509.0
57.5°	368.8	383.9	429.4	469.8	487.5
60°	334.7	353.6	404.1	447.1	466.0
62.5°	299.3	322.0	378.9	424.3	444.5
65°	265.2	290.5	352.4	400.3	421.8
67.5°	228.6	260.2	325.8	377.6	397.8
70°	192.0	228.6	298.1	351.1	371.3
72.5°	155.3	199.5	270.3	318.3	318.3
75°	120.0	169.2	241.2	240.0	232.4
77.5°	90.9	141.4	198.3	169.2	170.5
80°	65.7	113.7	125.0	125.0	126.3
82.5°	44.2	87.1	80.8	79.6	82.1
85°	26.5	40.4	41.7	37.9	39.2
87.5°	12.6	13.9	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)