

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: P263079

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263079
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-LD5-35-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2446.0 lumens
Efficiency: N/A
Efficacy: 98.9 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

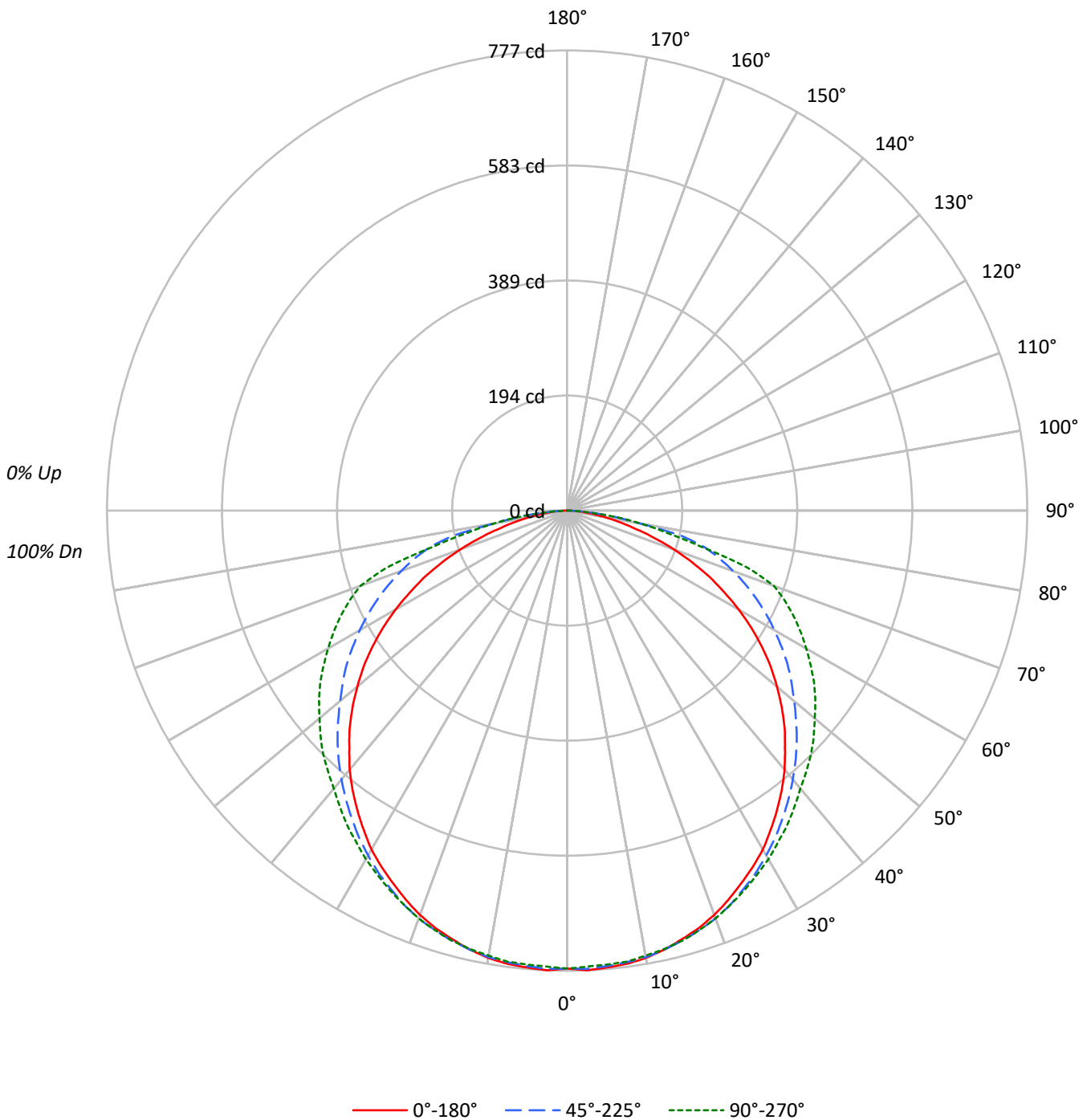
Input Watts (W): 24.73614
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	1043	1039
10°	1048	1046	1043
15°	1044	1047	1047
20°	1040	1049	1049
25°	1032	1047	1050
30°	1027	1044	1056
35°	1015	1042	1065
40°	1003	1041	1076
45°	988	1043	1108
50°	968	1047	1142
55°	943	1067	1194
60°	901	1088	1255
65°	845	1122	1344
70°	755	1173	1461
75°	624	1254	1209
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°	211.9	8.7
20°-30°	323.9	13.2
30°-40°	396.1	16.2
40°-50°	423.8	17.3
50°-60°	405.9	16.6
60°-70°	343.3	14.0
70°-80°	217.6	8.9
80°-90°	50.1	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°	609.2	24.9
0°-40°	1005.3	41.1
0°-60°	1835.0	75.0
0°-90°	2446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	774	771	772	771	769	74
15°	749	748	752	752	752	212
25°	695	695	705	708	708	321
35°	618	622	634	643	648	387
45°	519	528	548	571	582	400
55°	402	414	455	493	509	358
65°	265	291	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°	773.2	773.2	773.2	773.2	773.2
2.5°	777.0	773.2	774.5	773.2	770.7
5°	774.5	770.7	772.0	770.7	769.4
7.5°	772.0	768.2	769.4	768.2	768.2
10°	766.9	763.1	765.6	764.4	763.1
12.5°	759.3	756.8	759.3	758.1	758.1
15°	749.2	748.0	751.7	751.7	751.7
17.5°	739.1	737.9	742.9	742.9	742.9
20°	726.5	725.2	732.8	732.8	732.8
22.5°	711.3	710.1	720.2	720.2	720.2
25°	694.9	694.9	705.0	707.5	707.5
27.5°	678.5	678.5	689.8	693.6	693.6
30°	660.8	660.8	672.2	677.2	679.7
32.5°	639.3	641.8	654.5	660.8	663.3
35°	617.8	621.6	634.2	643.1	648.1
37.5°	595.1	598.9	614.0	624.1	630.5
40°	571.1	576.1	592.6	605.2	612.8
42.5°	544.5	552.1	571.1	587.5	597.6
45°	519.3	528.1	548.3	571.1	582.4
47.5°	491.5	501.6	524.3	553.4	564.8
50°	462.4	472.5	500.3	533.2	545.8
52.5°	433.4	444.7	477.6	513.0	528.1
55°	401.8	414.4	454.8	492.7	509.2
57.5°	368.9	384.1	429.6	470.0	487.7
60°	334.8	353.8	404.3	447.3	466.2
62.5°	299.4	322.2	379.0	424.5	444.7
65°	265.3	290.6	352.5	400.5	422.0
67.5°	228.7	260.3	326.0	377.8	398.0
70°	192.0	228.7	298.2	351.2	371.5
72.5°	155.4	199.6	270.4	318.4	318.4
75°	120.0	169.3	241.3	240.1	232.5
77.5°	91.0	141.5	198.4	169.3	170.6
80°	65.7	113.7	125.1	125.1	126.3
82.5°	44.2	87.2	80.9	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)