

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: P263549

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2596.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

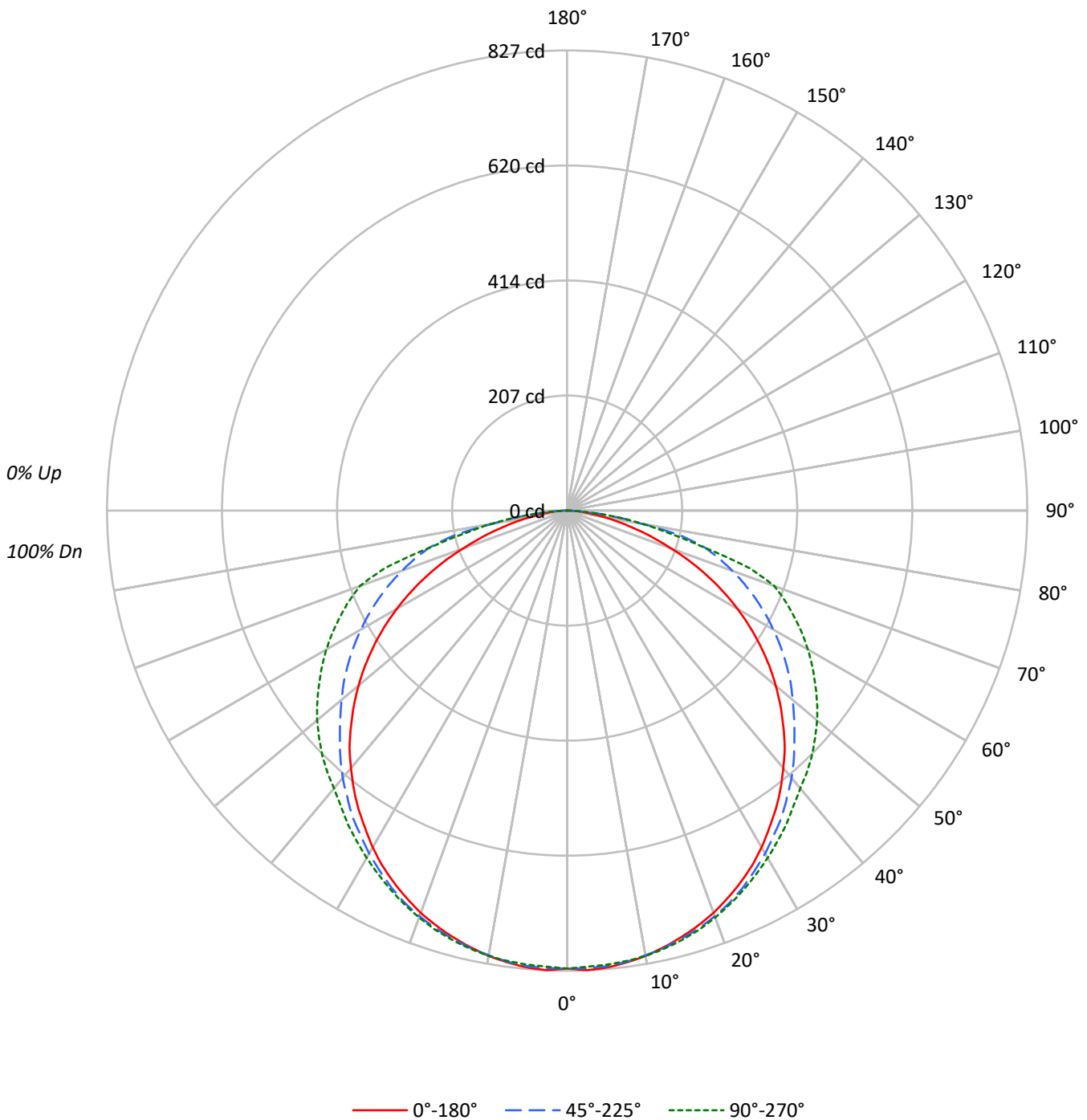
Input Watts (W): 26.63892
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1107	1107	1107
5°	1113	1110	1106
10°	1110	1109	1110
15°	1105	1109	1113
20°	1102	1111	1114
25°	1095	1110	1116
30°	1086	1106	1120
35°	1075	1104	1129
40°	1062	1102	1145
45°	1046	1099	1184
50°	1024	1107	1228
55°	995	1127	1277
60°	953	1152	1345
65°	887	1188	1432
70°	784	1242	1558
75°	658	1329	1308
80°	525	1050	1089
85°	414	710	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.0
10°-20°	224.6	8.7
20°-30°	343.1	13.2
30°-40°	419.5	16.2
40°-50°	449.0	17.3
50°-60°	430.7	16.6
60°-70°	363.6	14.0
70°-80°	232.4	9.0
80°-90°	55.0	2.1
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°	645.8	24.9
0°-40°	1065.3	41.0
0°-60°	1945.0	74.9
0°-90°	2596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	824	819	822	820	819	78
15°	794	791	796	799	799	224
25°	737	736	748	750	751	340
35°	654	659	672	681	688	409
45°	550	558	578	604	622	424
55°	424	438	480	524	544	379
65°	279	305	373	426	450	275
75°	126	180	256	261	252	136
85°	27	45	46	45	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.0	823.0	823.0	823.0	823.0
2.5°	826.8	821.7	823.0	823.0	820.4
5°	824.2	819.1	821.7	820.4	819.1
7.5°	819.1	815.3	817.8	817.8	816.6
10°	812.7	808.9	811.5	812.7	812.7
12.5°	803.8	801.2	805.1	805.1	806.3
15°	793.6	791.0	796.1	798.7	798.7
17.5°	782.1	780.8	787.2	788.5	789.7
20°	769.3	768.0	775.7	775.7	778.2
22.5°	753.9	752.7	762.9	762.9	765.4
25°	737.3	736.1	747.6	750.1	751.4
27.5°	719.4	718.2	729.7	733.5	736.1
30°	699.0	699.0	711.8	716.9	720.7
32.5°	676.0	679.8	691.3	699.0	704.1
35°	654.3	659.4	672.2	681.1	687.5
37.5°	630.0	635.1	649.2	660.7	668.3
40°	604.4	610.8	627.4	640.2	651.7
42.5°	578.9	585.3	603.2	622.3	637.7
45°	549.5	558.4	577.6	604.4	622.3
47.5°	520.1	529.0	553.3	586.5	604.4
50°	489.4	499.7	529.0	567.4	586.5
52.5°	457.5	469.0	506.0	546.9	566.1
55°	424.3	438.3	480.5	523.9	544.4
57.5°	389.8	405.1	454.9	500.9	522.7
60°	354.0	373.1	428.1	476.6	499.7
62.5°	316.9	339.9	401.3	451.1	475.4
65°	278.6	305.4	373.1	425.5	449.8
67.5°	239.0	274.7	345.0	400.0	424.3
70°	199.3	241.5	315.6	371.9	396.1
72.5°	162.3	210.8	286.2	338.6	343.7
75°	126.5	180.2	255.6	260.7	251.7
77.5°	94.6	149.5	210.8	187.8	186.6
80°	67.7	120.1	135.5	139.3	140.6
82.5°	44.7	90.7	88.2	90.7	89.5
85°	26.8	44.7	46.0	44.7	42.2
87.5°	12.8	16.6	12.8	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)