

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: P263502

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263502
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-LD5-40-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

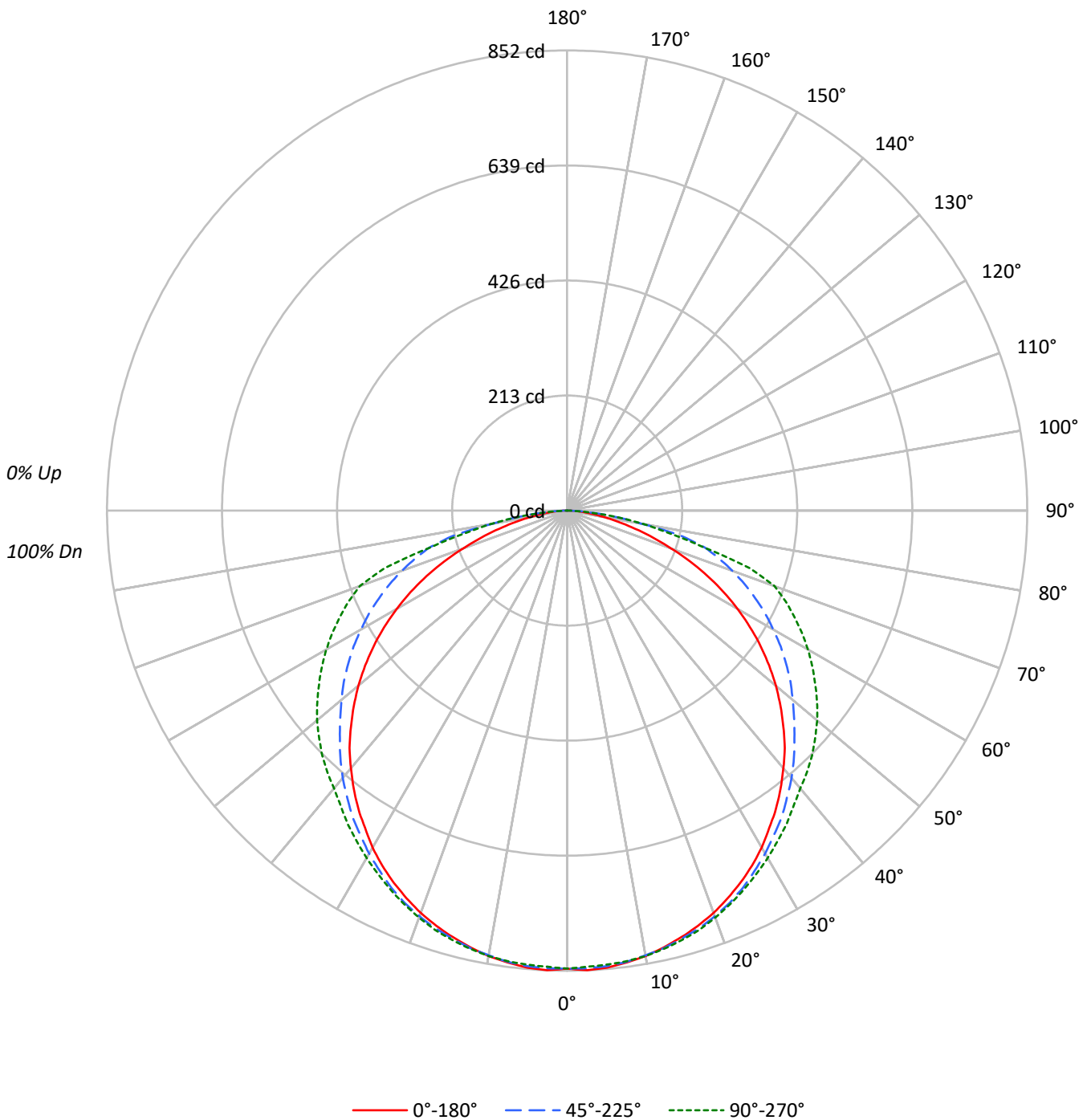
Input Watts (W): 28.215456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	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°	1141	1141	1141
5°	1147	1144	1140
10°	1144	1142	1144
15°	1139	1143	1146
20°	1135	1144	1148
25°	1128	1144	1150
30°	1119	1139	1154
35°	1107	1138	1164
40°	1094	1136	1180
45°	1077	1133	1220
50°	1056	1141	1265
55°	1026	1161	1316
60°	981	1187	1386
65°	914	1224	1476
70°	808	1279	1606
75°	678	1369	1349
80°	541	1082	1122
85°	428	732	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.0
10°-20°	231.5	8.7
20°-30°	353.6	13.2
30°-40°	432.2	16.2
40°-50°	462.7	17.3
50°-60°	443.8	16.6
60°-70°	374.7	14.0
70°-80°	239.5	9.0
80°-90°	56.6	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°	665.5	24.9
0°-40°	1097.7	41.0
0°-60°	2004.2	74.9
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	849	844	847	845	844	81
15°	818	815	820	823	823	231
25°	760	758	770	773	774	350
35°	674	680	693	702	708	422
45°	566	575	595	623	641	437
55°	437	452	495	540	561	390
65°	287	315	384	438	464	283
75°	130	186	263	269	259	140
85°	28	46	47	46	44	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.0	848.0	848.0	848.0	848.0
2.5°	851.9	846.7	848.0	848.0	845.4
5°	849.3	844.0	846.7	845.4	844.0
7.5°	844.0	840.1	842.7	842.7	841.4
10°	837.5	833.5	836.1	837.5	837.5
12.5°	828.2	825.6	829.6	829.6	830.9
15°	817.7	815.1	820.3	823.0	823.0
17.5°	805.9	804.5	811.1	812.4	813.8
20°	792.7	791.4	799.3	799.3	801.9
22.5°	776.9	775.6	786.1	786.1	788.7
25°	759.8	758.5	770.3	772.9	774.3
27.5°	741.3	740.0	751.9	755.8	758.5
30°	720.3	720.3	733.4	738.7	742.7
32.5°	696.6	700.5	712.4	720.3	725.5
35°	674.2	679.5	692.6	701.8	708.4
37.5°	649.2	654.4	668.9	680.8	688.7
40°	622.8	629.4	646.5	659.7	671.6
42.5°	596.5	603.1	621.5	641.3	657.1
45°	566.2	575.4	595.2	622.8	641.3
47.5°	535.9	545.1	570.2	604.4	622.8
50°	504.3	514.9	545.1	584.6	604.4
52.5°	471.4	483.3	521.4	563.6	583.3
55°	437.2	451.7	495.1	539.9	560.9
57.5°	401.6	417.4	468.8	516.2	538.6
60°	364.7	384.5	441.1	491.2	514.9
62.5°	326.6	350.3	413.5	464.8	489.8
65°	287.1	314.7	384.5	438.5	463.5
67.5°	246.2	283.1	355.5	412.1	437.2
70°	205.4	248.9	325.2	383.2	408.2
72.5°	167.2	217.3	295.0	348.9	354.2
75°	130.4	185.7	263.4	268.6	259.4
77.5°	97.4	154.1	217.3	193.6	192.2
80°	69.8	123.8	139.6	143.5	144.8
82.5°	46.1	93.5	90.9	93.5	92.2
85°	27.7	46.1	47.4	46.1	43.5
87.5°	13.2	17.1	13.2	11.9	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)