

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: P276824

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2619.6 lumens
Efficiency: N/A
Efficacy: 81.2 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

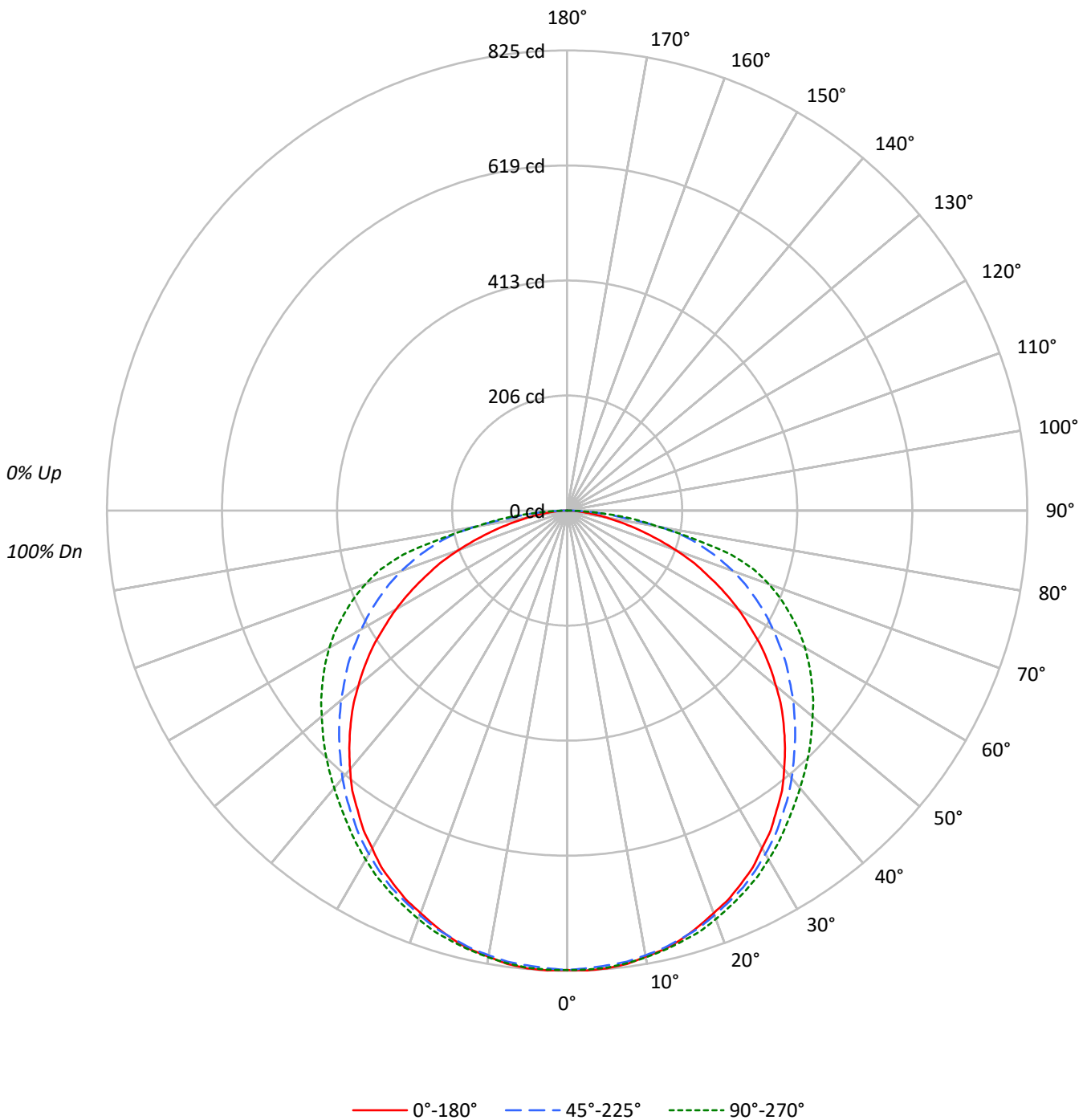
Input Watts (W): 32.251284
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1108	1108	1108
5°	1113	1106	1111
10°	1110	1106	1111
15°	1108	1106	1113
20°	1100	1105	1116
25°	1096	1107	1119
30°	1086	1104	1122
35°	1076	1101	1127
40°	1064	1100	1141
45°	1046	1100	1167
50°	1023	1107	1202
55°	997	1125	1256
60°	954	1147	1325
65°	894	1187	1407
70°	813	1242	1513
75°	689	1311	1580
80°	544	1319	1278
85°	401	1003	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.0
10°-20°	224.9	8.6
20°-30°	343.9	13.1
30°-40°	420.4	16.0
40°-50°	448.1	17.1
50°-60°	428.4	16.4
60°-70°	362.9	13.9
70°-80°	243.9	9.3
80°-90°	68.8	2.6
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°	646.9	24.7
0°-40°	1067.4	40.7
0°-60°	1943.9	74.2
0°-90°	2619.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	824	822	819	822	822	78
15°	795	795	794	800	799	224
25°	738	741	746	752	754	340
35°	655	660	670	684	686	410
45°	550	559	578	603	613	424
55°	425	440	480	517	535	378
65°	281	309	373	422	442	279
75°	132	181	252	295	304	142
85°	26	53	65	70	73	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.8	823.8	823.8	823.8	823.8
2.5°	825.1	825.1	821.2	823.8	823.8
5°	823.8	822.5	818.6	822.5	822.5
7.5°	819.9	818.6	816.0	819.9	818.6
10°	812.1	812.1	809.5	813.4	813.4
12.5°	805.6	804.3	803.0	808.2	806.9
15°	795.2	795.2	793.9	800.4	799.1
17.5°	782.2	783.5	784.8	790.0	791.3
20°	767.9	770.5	771.8	779.6	779.6
22.5°	754.9	756.2	758.8	766.6	766.6
25°	738.0	740.6	745.8	752.3	753.6
27.5°	721.1	722.4	728.9	738.0	739.3
30°	699.0	702.9	710.7	721.1	722.4
32.5°	679.6	683.5	692.5	702.9	705.5
35°	654.9	660.1	670.5	683.5	686.0
37.5°	632.8	636.7	649.7	664.0	667.9
40°	605.5	613.3	626.3	643.2	649.7
42.5°	578.2	586.0	601.6	623.7	631.5
45°	549.6	558.7	578.2	602.9	613.3
47.5°	521.0	531.4	553.5	582.1	593.8
50°	488.6	501.5	528.8	561.3	574.3
52.5°	457.4	473.0	502.8	539.2	556.1
55°	424.9	440.5	479.5	517.1	535.3
57.5°	388.5	409.3	452.2	495.0	514.5
60°	354.7	374.2	426.2	473.0	492.4
62.5°	318.3	344.3	400.2	449.6	469.1
65°	280.7	309.2	372.9	422.3	441.8
67.5°	246.9	278.1	345.6	395.0	414.5
70°	206.6	245.6	315.7	365.1	384.6
72.5°	168.9	211.8	284.6	332.6	350.8
75°	132.5	180.6	252.1	294.9	304.0
77.5°	98.7	149.4	218.3	236.5	230.0
80°	70.2	119.5	170.2	161.1	165.0
82.5°	45.5	91.0	105.2	119.5	123.4
85°	26.0	53.3	65.0	70.2	72.8
87.5°	11.7	19.5	26.0	26.0	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)