

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: P276911

Luminaire Tested: **24CZ2-45HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276911
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.7 lumens
Efficiency: N/A
Efficacy: 88.1 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

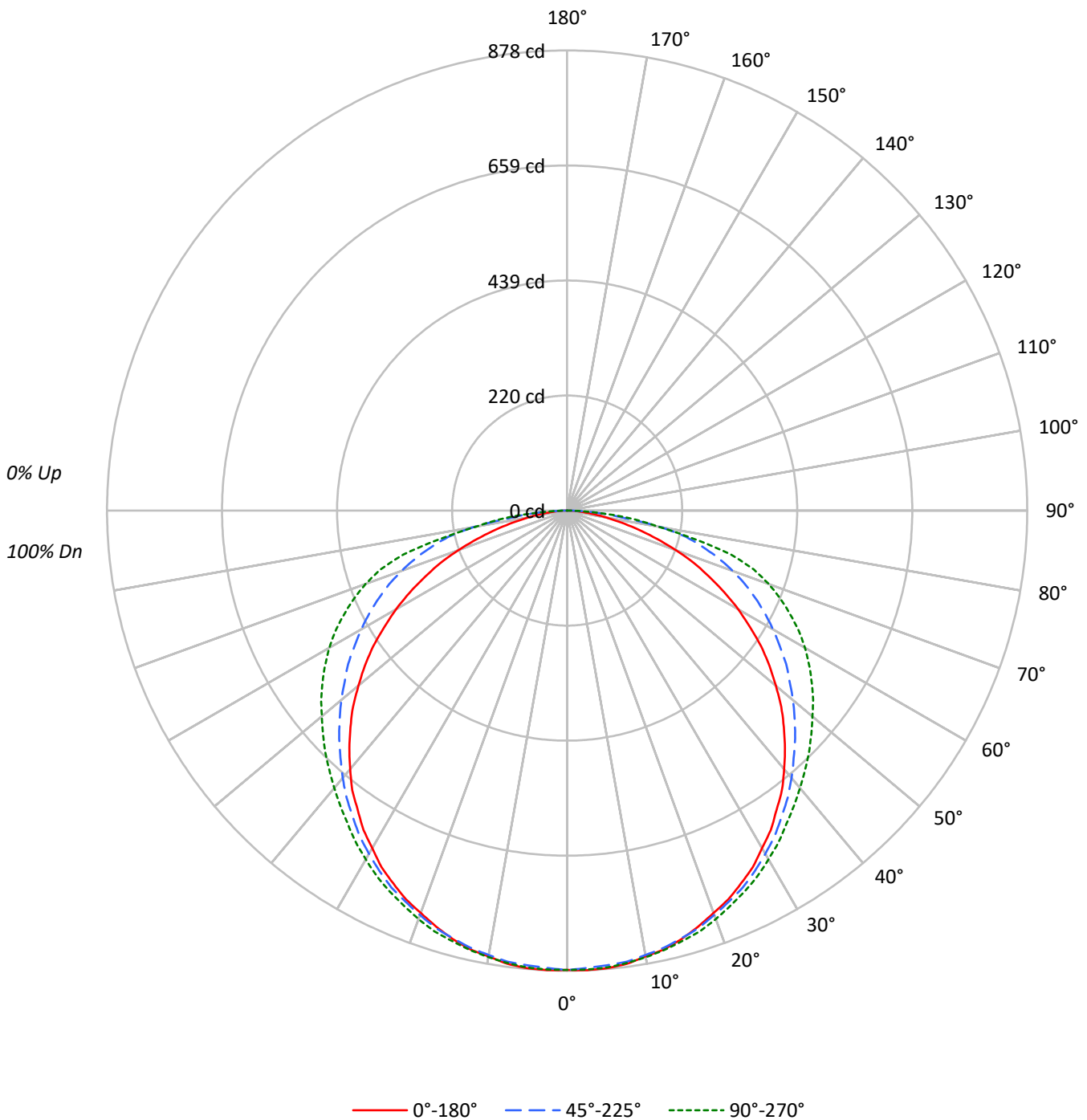
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1179	1179	1179
5°	1184	1176	1182
10°	1180	1176	1182
15°	1178	1176	1184
20°	1170	1176	1188
25°	1166	1178	1190
30°	1155	1175	1194
35°	1144	1171	1199
40°	1131	1170	1214
45°	1113	1170	1241
50°	1088	1178	1279
55°	1060	1197	1336
60°	1016	1220	1410
65°	951	1263	1496
70°	865	1321	1609
75°	733	1394	1681
80°	578	1403	1360
85°	426	1067	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	239.2	8.6
20°-30°	365.9	13.1
30°-40°	447.3	16.0
40°-50°	476.7	17.1
50°-60°	455.8	16.4
60°-70°	386.1	13.9
70°-80°	259.5	9.3
80°-90°	73.2	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°	688.2	24.7
0°-40°	1135.5	40.7
0°-60°	2067.9	74.2
0°-90°	2786.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	875	871	875	875	83
15°	846	846	845	852	850	239
25°	785	788	793	800	802	362
35°	697	702	713	727	730	436
45°	585	594	615	641	652	451
55°	452	469	510	550	570	403
65°	299	329	397	449	470	296
75°	141	192	268	314	323	151
85°	28	57	69	75	77	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.4	876.4	876.4	876.4	876.4
2.5°	877.7	877.7	873.6	876.4	876.4
5°	876.4	875.0	870.8	875.0	875.0
7.5°	872.2	870.8	868.1	872.2	870.8
10°	863.9	863.9	861.1	865.3	865.3
12.5°	857.0	855.6	854.2	859.8	858.4
15°	845.9	845.9	844.6	851.5	850.1
17.5°	832.1	833.5	834.9	840.4	841.8
20°	816.9	819.7	821.1	829.4	829.4
22.5°	803.1	804.5	807.2	815.5	815.5
25°	785.1	787.9	793.4	800.3	801.7
27.5°	767.2	768.5	775.4	785.1	786.5
30°	743.7	747.8	756.1	767.2	768.5
32.5°	722.9	727.1	736.7	747.8	750.6
35°	696.7	702.2	713.2	727.1	729.8
37.5°	673.2	677.3	691.1	706.3	710.5
40°	644.1	652.4	666.2	684.2	691.1
42.5°	615.1	623.4	640.0	663.5	671.8
45°	584.7	594.4	615.1	641.4	652.4
47.5°	554.3	565.3	588.8	619.3	631.7
50°	519.7	533.6	562.6	597.1	611.0
52.5°	486.6	503.1	534.9	573.6	591.6
55°	452.0	468.6	510.1	550.1	569.5
57.5°	413.3	435.4	481.0	526.6	547.4
60°	377.4	398.1	453.4	503.1	523.9
62.5°	338.7	366.3	425.7	478.3	499.0
65°	298.6	329.0	396.7	449.2	470.0
67.5°	262.6	295.8	367.7	420.2	440.9
70°	219.8	261.2	335.9	388.4	409.1
72.5°	179.7	225.3	302.7	353.9	373.2
75°	141.0	192.1	268.2	313.8	323.4
77.5°	105.1	159.0	232.2	251.6	244.7
80°	74.6	127.2	181.1	171.4	175.5
82.5°	48.4	96.8	112.0	127.2	131.3
85°	27.6	56.7	69.1	74.6	77.4
87.5°	12.4	20.7	27.6	27.6	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)