

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: P277001

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277001
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: 24CZ2-45-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

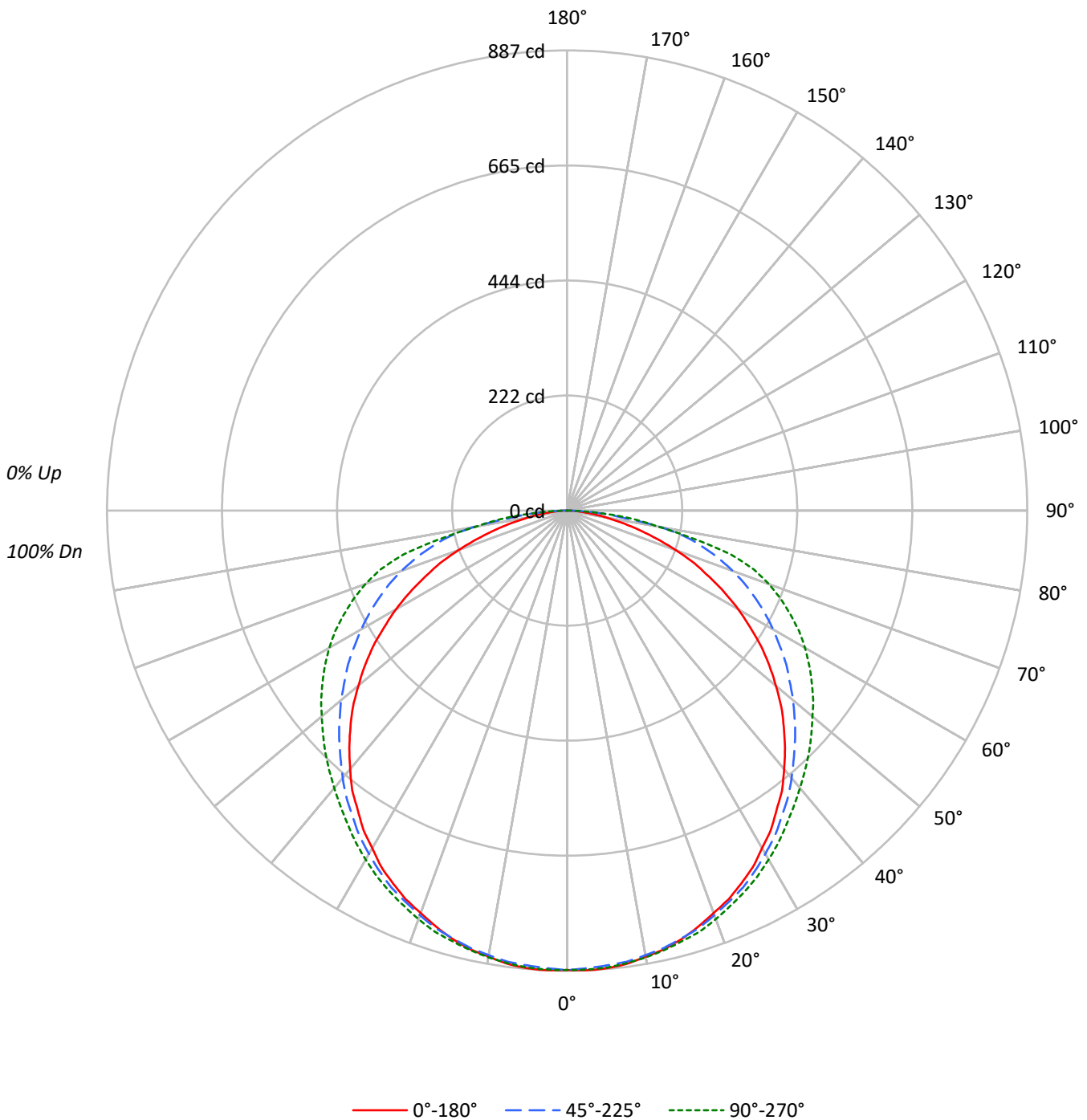
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1192	1192	1192
5°	1196	1189	1194
10°	1193	1189	1195
15°	1191	1189	1197
20°	1182	1188	1200
25°	1178	1190	1203
30°	1168	1187	1207
35°	1156	1184	1211
40°	1143	1182	1227
45°	1124	1183	1255
50°	1099	1190	1292
55°	1071	1209	1350
60°	1026	1233	1425
65°	961	1276	1512
70°	874	1335	1626
75°	741	1409	1699
80°	584	1418	1375
85°	431	1078	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.0
10°-20°	241.8	8.6
20°-30°	369.7	13.1
30°-40°	452.0	16.0
40°-50°	481.7	17.1
50°-60°	460.6	16.4
60°-70°	390.1	13.9
70°-80°	262.2	9.3
80°-90°	74.0	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°	695.5	24.7
0°-40°	1147.4	40.7
0°-60°	2089.7	74.2
0°-90°	2816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	886	884	880	884	884	84
15°	855	855	853	860	859	241
25°	793	796	802	809	810	366
35°	704	710	721	735	738	441
45°	591	601	622	648	659	456
55°	457	474	515	556	576	407
65°	302	332	401	454	475	300
75°	142	194	271	317	327	153
85°	28	57	70	75	78	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.6	885.6	885.6	885.6	885.6
2.5°	887.0	887.0	882.8	885.6	885.6
5°	885.6	884.2	880.0	884.2	884.2
7.5°	881.4	880.0	877.2	881.4	880.0
10°	873.0	873.0	870.2	874.4	874.4
12.5°	866.0	864.6	863.2	868.8	867.4
15°	854.8	854.8	853.4	860.4	859.0
17.5°	840.9	842.3	843.7	849.2	850.6
20°	825.5	828.3	829.7	838.1	838.1
22.5°	811.5	812.9	815.7	824.1	824.1
25°	793.4	796.2	801.8	808.7	810.1
27.5°	775.2	776.6	783.6	793.4	794.8
30°	751.5	755.7	764.0	775.2	776.6
32.5°	730.5	734.7	744.5	755.7	758.5
35°	704.0	709.6	720.7	734.7	737.5
37.5°	680.2	684.4	698.4	713.8	717.9
40°	650.9	659.3	673.2	691.4	698.4
42.5°	621.6	629.9	646.7	670.5	678.8
45°	590.8	600.6	621.6	648.1	659.3
47.5°	560.1	571.3	595.0	625.8	638.3
50°	525.2	539.2	568.5	603.4	617.4
52.5°	491.7	508.4	540.6	579.7	597.8
55°	456.7	473.5	515.4	555.9	575.5
57.5°	417.6	440.0	486.1	532.2	553.1
60°	381.3	402.3	458.1	508.4	529.4
62.5°	342.2	370.1	430.2	483.3	504.2
65°	301.7	332.4	400.9	454.0	474.9
67.5°	265.4	298.9	371.5	424.6	445.6
70°	222.1	264.0	339.4	392.5	413.4
72.5°	181.6	227.7	305.9	357.6	377.1
75°	142.5	194.2	271.0	317.1	326.8
77.5°	106.2	160.6	234.7	254.2	247.2
80°	75.4	128.5	183.0	173.2	177.4
82.5°	48.9	97.8	113.1	128.5	132.7
85°	27.9	57.3	69.8	75.4	78.2
87.5°	12.6	21.0	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)