

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: P263897

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263897
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-LD5-45SE-RDP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

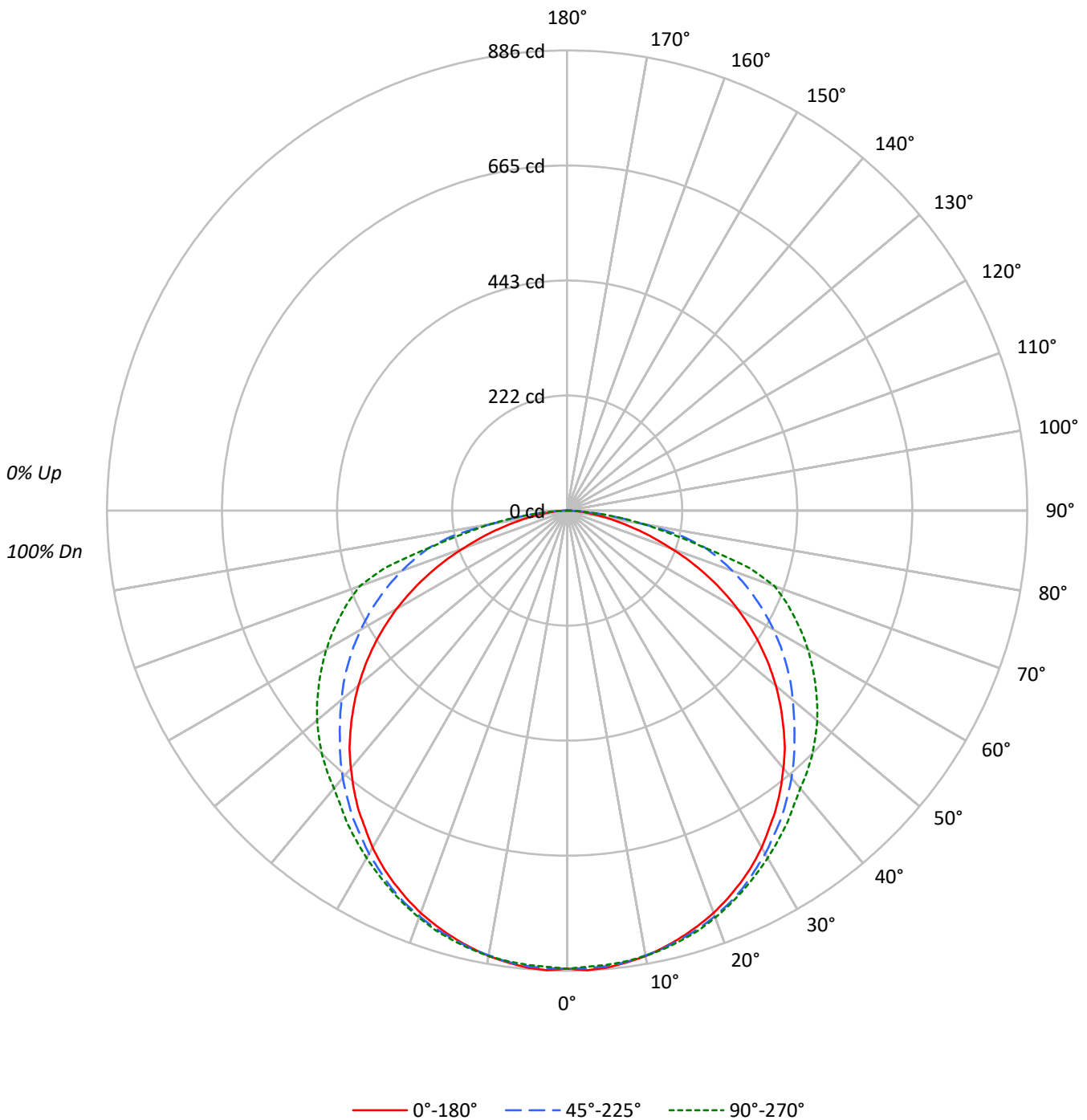
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1187	1187	1187
5°	1193	1189	1186
10°	1190	1188	1190
15°	1185	1188	1192
20°	1180	1190	1194
25°	1173	1189	1195
30°	1164	1185	1200
35°	1152	1183	1210
40°	1138	1181	1227
45°	1121	1178	1269
50°	1098	1187	1316
55°	1067	1208	1369
60°	1021	1235	1441
65°	950	1273	1535
70°	840	1331	1670
75°	705	1424	1403
80°	563	1125	1167
85°	445	761	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.0
10°-20°	240.7	8.7
20°-30°	367.7	13.2
30°-40°	449.5	16.2
40°-50°	481.2	17.3
50°-60°	461.5	16.6
60°-70°	389.7	14.0
70°-80°	249.1	9.0
80°-90°	58.9	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°	692.1	24.9
0°-40°	1141.6	41.0
0°-60°	2084.3	74.9
0°-90°	2782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	883	878	880	879	878	84
15°	850	848	853	856	856	240
25°	790	789	801	804	805	364
35°	701	707	720	730	737	438
45°	589	598	619	648	667	454
55°	455	470	515	562	583	406
65°	298	327	400	456	482	294
75°	136	193	274	279	270	146
85°	29	48	49	48	45	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.9	881.9	881.9	881.9	881.9
2.5°	886.0	880.5	881.9	881.9	879.2
5°	883.3	877.8	880.5	879.2	877.8
7.5°	877.8	873.7	876.4	876.4	875.1
10°	871.0	866.9	869.6	871.0	871.0
12.5°	861.4	858.6	862.7	862.7	864.1
15°	850.4	847.7	853.2	855.9	855.9
17.5°	838.1	836.7	843.6	844.9	846.3
20°	824.4	823.0	831.2	831.2	834.0
22.5°	808.0	806.6	817.6	817.6	820.3
25°	790.2	788.8	801.1	803.9	805.2
27.5°	771.0	769.6	781.9	786.1	788.8
30°	749.1	749.1	762.8	768.3	772.4
32.5°	724.4	728.5	740.9	749.1	754.6
35°	701.2	706.6	720.3	729.9	736.8
37.5°	675.1	680.6	695.7	708.0	716.2
40°	647.7	654.6	672.4	686.1	698.4
42.5°	620.4	627.2	646.4	666.9	683.3
45°	588.9	598.4	619.0	647.7	666.9
47.5°	557.4	566.9	593.0	628.6	647.7
50°	524.5	535.4	566.9	608.0	628.6
52.5°	490.3	502.6	542.3	586.1	606.7
55°	454.7	469.7	514.9	561.5	583.4
57.5°	417.7	434.1	487.5	536.8	560.1
60°	379.3	399.9	458.8	510.8	535.4
62.5°	339.6	364.3	430.0	483.4	509.4
65°	298.5	327.3	399.9	456.0	482.0
67.5°	256.1	294.4	369.7	428.6	454.7
70°	213.6	258.8	338.3	398.5	424.5
72.5°	173.9	226.0	306.8	362.9	368.4
75°	135.6	193.1	273.9	279.4	269.8
77.5°	101.3	160.2	226.0	201.3	199.9
80°	72.6	128.7	145.2	149.3	150.6
82.5°	47.9	97.2	94.5	97.2	95.9
85°	28.8	47.9	49.3	47.9	45.2
87.5°	13.7	17.8	13.7	12.3	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)