

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: P263896

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263896
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

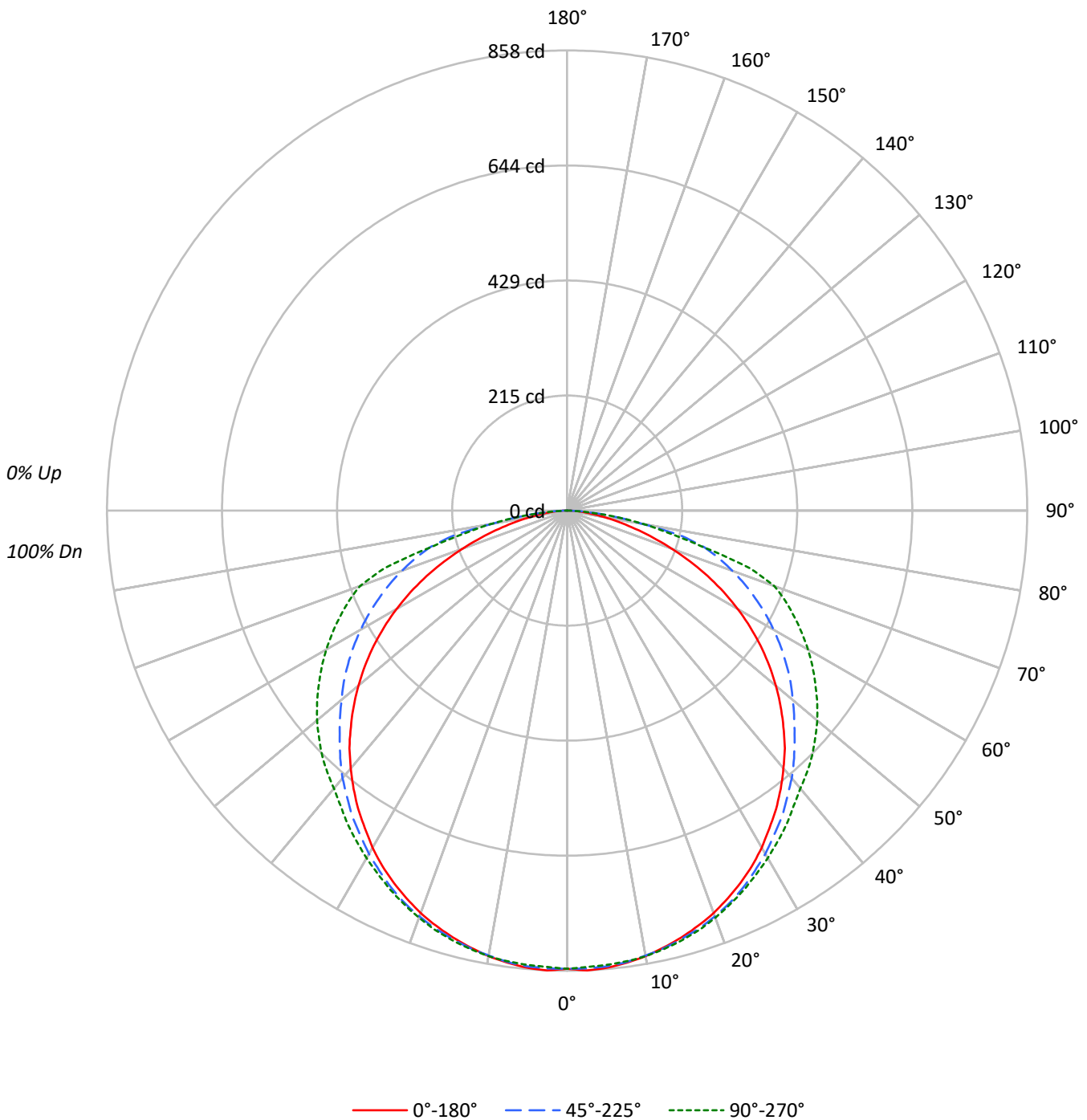
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1149	1149	1149
5°	1156	1152	1149
10°	1153	1151	1153
15°	1148	1151	1155
20°	1143	1153	1157
25°	1136	1152	1158
30°	1127	1148	1162
35°	1116	1146	1172
40°	1102	1144	1188
45°	1085	1141	1229
50°	1064	1150	1275
55°	1033	1170	1326
60°	989	1196	1396
65°	921	1233	1487
70°	814	1289	1618
75°	683	1379	1358
80°	545	1089	1130
85°	431	738	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.0
10°-20°	233.2	8.7
20°-30°	356.2	13.2
30°-40°	435.5	16.2
40°-50°	466.1	17.3
50°-60°	447.1	16.6
60°-70°	377.5	14.0
70°-80°	241.3	9.0
80°-90°	57.1	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°	670.4	24.9
0°-40°	1105.9	41.0
0°-60°	2019.2	74.9
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	856	850	853	852	850	81
15°	824	821	826	829	829	233
25°	766	764	776	779	780	353
35°	679	684	698	707	714	425
45°	570	580	600	628	646	440
55°	440	455	499	544	565	393
65°	289	317	387	442	467	285
75°	131	187	265	271	261	141
85°	28	46	48	46	44	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.3	854.3	854.3	854.3	854.3
2.5°	858.3	853.0	854.3	854.3	851.7
5°	855.7	850.4	853.0	851.7	850.4
7.5°	850.4	846.4	849.0	849.0	847.7
10°	843.7	839.7	842.4	843.7	843.7
12.5°	834.4	831.8	835.8	835.8	837.1
15°	823.8	821.2	826.5	829.1	829.1
17.5°	811.9	810.6	817.2	818.5	819.8
20°	798.6	797.3	805.3	805.3	807.9
22.5°	782.7	781.4	792.0	792.0	794.6
25°	765.5	764.1	776.1	778.7	780.0
27.5°	746.9	745.6	757.5	761.5	764.1
30°	725.7	725.7	738.9	744.2	748.2
32.5°	701.8	705.8	717.7	725.7	731.0
35°	679.2	684.5	697.8	707.1	713.7
37.5°	654.0	659.3	673.9	685.9	693.8
40°	627.5	634.1	651.4	664.6	676.6
42.5°	601.0	607.6	626.2	646.1	662.0
45°	570.4	579.7	599.6	627.5	646.1
47.5°	539.9	549.2	574.4	608.9	627.5
50°	508.1	518.7	549.2	589.0	608.9
52.5°	474.9	486.9	525.3	567.8	587.7
55°	440.4	455.0	498.8	543.9	565.1
57.5°	404.6	420.5	472.3	520.0	542.6
60°	367.5	387.4	444.4	494.8	518.7
62.5°	329.0	352.9	416.6	468.3	493.5
65°	289.2	317.1	387.4	441.8	467.0
67.5°	248.1	285.2	358.2	415.2	440.4
70°	207.0	250.7	327.7	386.0	411.2
72.5°	168.5	218.9	297.2	351.6	356.9
75°	131.3	187.1	265.3	270.6	261.3
77.5°	98.2	155.2	218.9	195.0	193.7
80°	70.3	124.7	140.6	144.6	145.9
82.5°	46.4	94.2	91.5	94.2	92.9
85°	27.9	46.4	47.8	46.4	43.8
87.5°	13.3	17.2	13.3	11.9	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)