

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: P263806

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263806
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-LD5-45-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

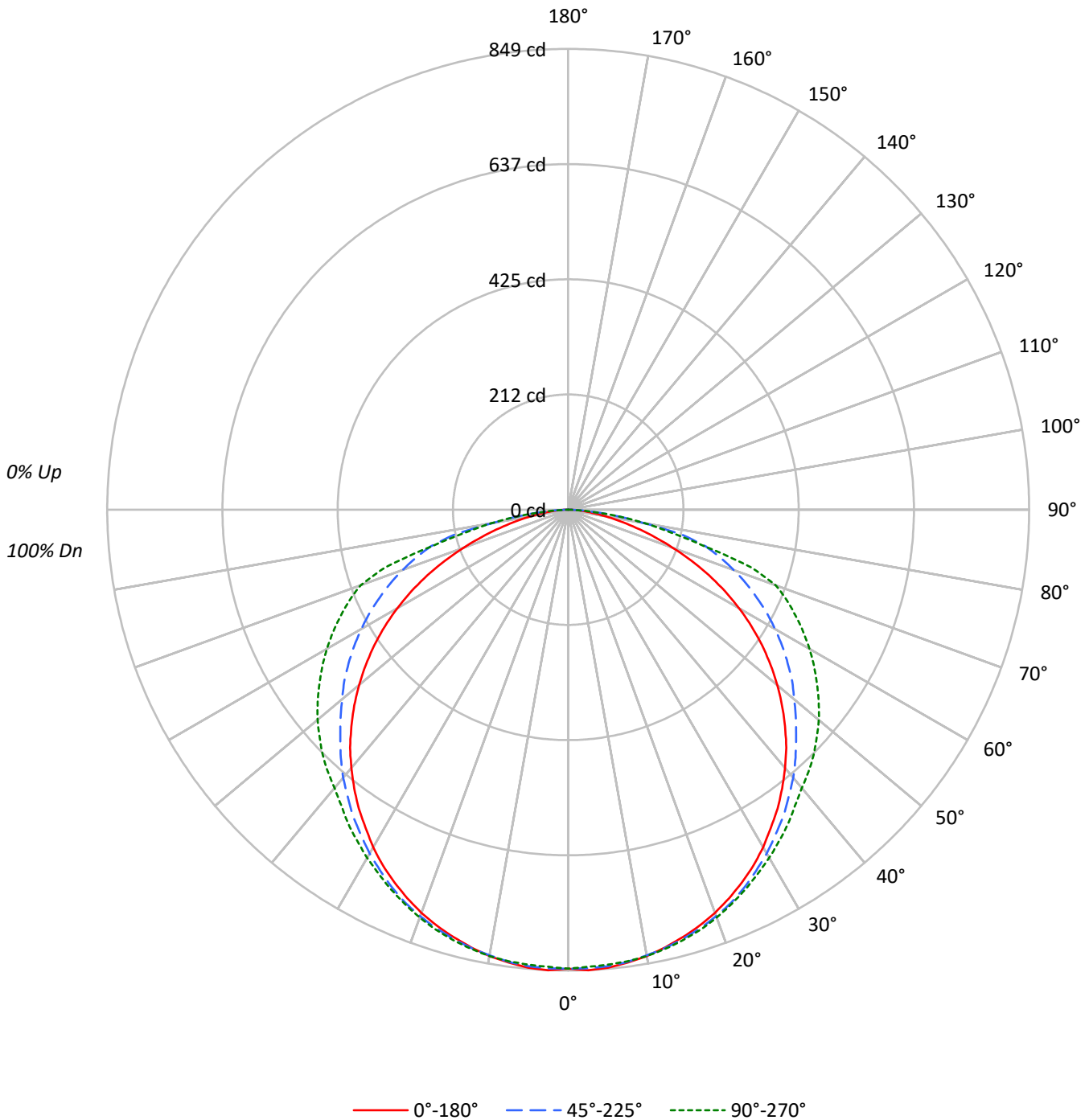
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1138	1138	1138
5°	1144	1140	1137
10°	1141	1139	1141
15°	1136	1139	1143
20°	1132	1141	1145
25°	1125	1140	1146
30°	1116	1136	1150
35°	1104	1134	1160
40°	1091	1132	1176
45°	1074	1129	1216
50°	1052	1138	1261
55°	1023	1158	1312
60°	979	1183	1381
65°	911	1220	1471
70°	806	1276	1601
75°	676	1365	1344
80°	539	1079	1119
85°	426	730	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.0
10°-20°	230.8	8.7
20°-30°	352.5	13.2
30°-40°	430.9	16.2
40°-50°	461.3	17.3
50°-60°	442.5	16.6
60°-70°	373.6	14.0
70°-80°	238.8	9.0
80°-90°	56.5	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
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0°-30°	663.5	24.9
0°-40°	1094.4	41.0
0°-60°	1998.2	74.9
0°-90°	2667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	847	842	844	843	842	80
15°	815	813	818	820	820	230
25°	758	756	768	771	772	349
35°	672	677	690	700	706	420
45°	564	574	593	621	639	435
55°	436	450	494	538	559	389
65°	286	314	383	437	462	282
75°	130	185	263	268	259	140
85°	28	46	47	46	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.5	845.5	845.5	845.5	845.5
2.5°	849.4	844.1	845.5	845.5	842.8
5°	846.8	841.5	844.1	842.8	841.5
7.5°	841.5	837.6	840.2	840.2	838.9
10°	835.0	831.0	833.6	835.0	835.0
12.5°	825.8	823.1	827.1	827.1	828.4
15°	815.3	812.6	817.9	820.5	820.5
17.5°	803.5	802.1	808.7	810.0	811.3
20°	790.3	789.0	796.9	796.9	799.5
22.5°	774.6	773.3	783.8	783.8	786.4
25°	757.5	756.2	768.0	770.6	771.9
27.5°	739.1	737.8	749.6	753.6	756.2
30°	718.1	718.1	731.2	736.5	740.4
32.5°	694.5	698.4	710.2	718.1	723.4
35°	672.2	677.4	690.5	699.7	706.3
37.5°	647.2	652.5	666.9	678.7	686.6
40°	621.0	627.5	644.6	657.7	669.5
42.5°	594.7	601.3	619.7	639.3	655.1
45°	564.5	573.7	593.4	621.0	639.3
47.5°	534.3	543.5	568.5	602.6	621.0
50°	502.8	513.3	543.5	582.9	602.6
52.5°	470.0	481.8	519.9	561.9	581.6
55°	435.9	450.3	493.6	538.3	559.3
57.5°	400.4	416.2	467.4	514.6	536.9
60°	363.7	383.3	439.8	489.7	513.3
62.5°	325.6	349.2	412.2	463.4	488.4
65°	286.2	313.8	383.3	437.2	462.1
67.5°	245.5	282.3	354.5	410.9	435.9
70°	204.8	248.1	324.3	382.0	407.0
72.5°	166.7	216.6	294.1	347.9	353.2
75°	130.0	185.1	262.6	267.8	258.6
77.5°	97.1	153.6	216.6	193.0	191.7
80°	69.6	123.4	139.2	143.1	144.4
82.5°	45.9	93.2	90.6	93.2	91.9
85°	27.6	45.9	47.3	45.9	43.3
87.5°	13.1	17.1	13.1	11.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)