

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: P263810

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263810
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2926.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

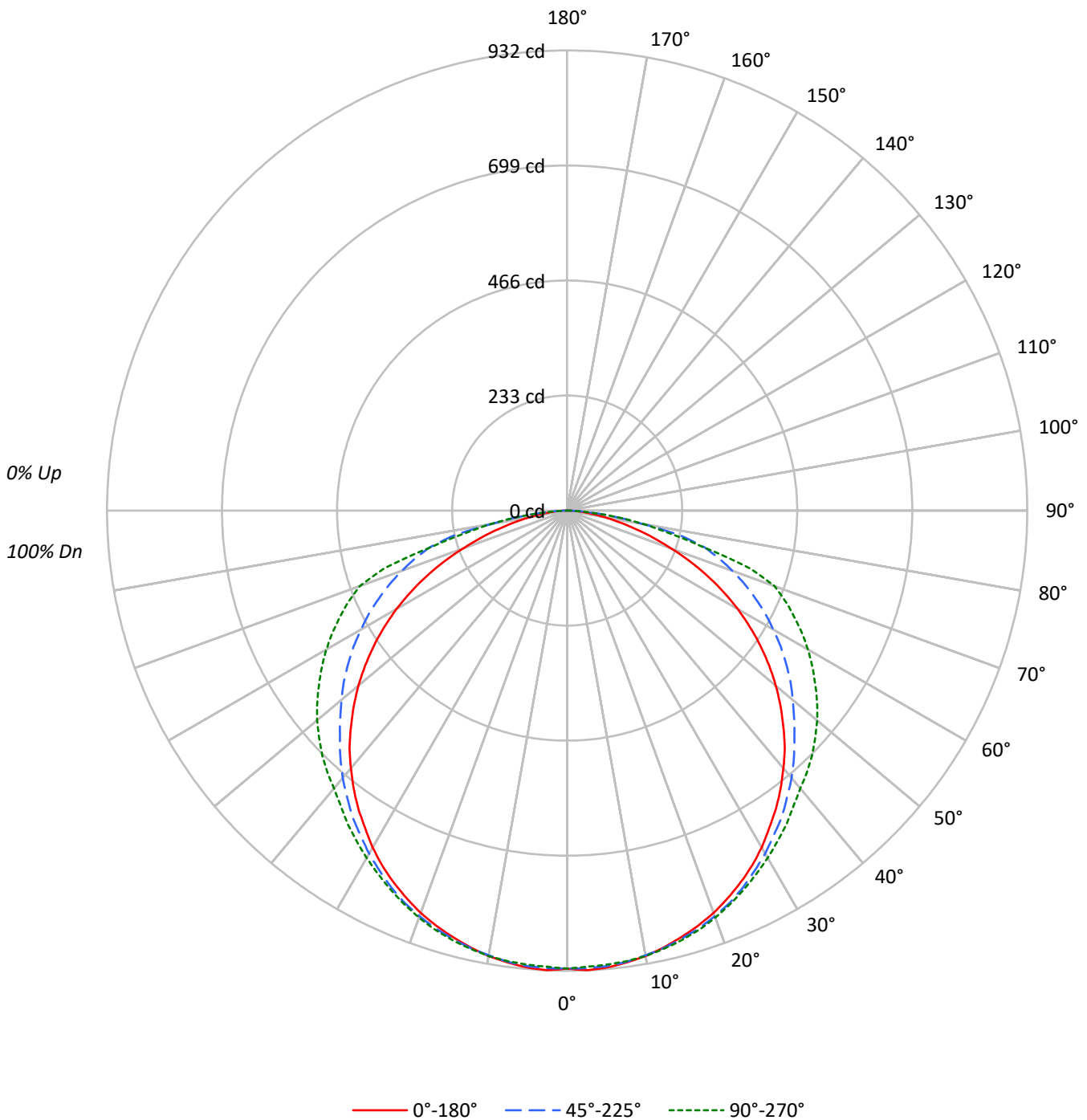
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1248	1248	1248
5°	1255	1251	1247
10°	1251	1250	1251
15°	1246	1250	1254
20°	1242	1252	1256
25°	1234	1251	1257
30°	1224	1246	1262
35°	1211	1244	1273
40°	1197	1242	1290
45°	1178	1239	1335
50°	1155	1248	1384
55°	1122	1270	1439
60°	1074	1298	1516
65°	1000	1339	1614
70°	884	1400	1757
75°	741	1498	1475
80°	591	1183	1227
85°	466	801	733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.0
10°-20°	253.2	8.7
20°-30°	386.7	13.2
30°-40°	472.8	16.2
40°-50°	506.1	17.3
50°-60°	485.4	16.6
60°-70°	409.9	14.0
70°-80°	262.0	9.0
80°-90°	62.0	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°	727.9	24.9
0°-40°	1200.7	41.0
0°-60°	2192.2	74.9
0°-90°	2926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	929	923	926	925	923	88
15°	894	892	897	900	900	253
25°	831	830	843	846	847	383
35°	737	743	758	768	775	461
45°	619	629	651	681	701	478
55°	478	494	542	590	614	427
65°	314	344	421	480	507	310
75°	143	203	288	294	284	154
85°	30	50	52	50	48	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.6	927.6	927.6	927.6	927.6
2.5°	931.9	926.1	927.6	927.6	924.7
5°	929.0	923.2	926.1	924.7	923.2
7.5°	923.2	918.9	921.8	921.8	920.4
10°	916.0	911.7	914.6	916.0	916.0
12.5°	906.0	903.1	907.4	907.4	908.8
15°	894.4	891.6	897.3	900.2	900.2
17.5°	881.5	880.0	887.2	888.7	890.1
20°	867.1	865.6	874.3	874.3	877.2
22.5°	849.8	848.3	859.9	859.9	862.8
25°	831.1	829.6	842.6	845.5	846.9
27.5°	810.9	809.5	822.4	826.7	829.6
30°	787.9	787.9	802.3	808.0	812.3
32.5°	761.9	766.3	779.2	787.9	793.6
35°	737.4	743.2	757.6	767.7	774.9
37.5°	710.1	715.8	731.7	744.6	753.3
40°	681.3	688.5	707.2	721.6	734.6
42.5°	652.5	659.7	679.8	701.4	718.7
45°	619.3	629.4	651.0	681.3	701.4
47.5°	586.2	596.3	623.7	661.1	681.3
50°	551.6	563.2	596.3	639.5	661.1
52.5°	515.6	528.6	570.4	616.5	638.1
55°	478.2	494.0	541.6	590.5	613.6
57.5°	439.3	456.6	512.8	564.6	589.1
60°	399.0	420.6	482.5	537.2	563.2
62.5°	357.2	383.1	452.3	508.4	535.8
65°	314.0	344.2	420.6	479.6	507.0
67.5°	269.3	309.7	388.9	450.8	478.2
70°	224.7	272.2	355.8	419.1	446.5
72.5°	182.9	237.7	322.6	381.7	387.4
75°	142.6	203.1	288.1	293.8	283.7
77.5°	106.6	168.5	237.7	211.7	210.3
80°	76.3	135.4	152.7	157.0	158.4
82.5°	50.4	102.3	99.4	102.3	100.8
85°	30.2	50.4	51.9	50.4	47.5
87.5°	14.4	18.7	14.4	13.0	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)