

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: P263662

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263662
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-LD5-40-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

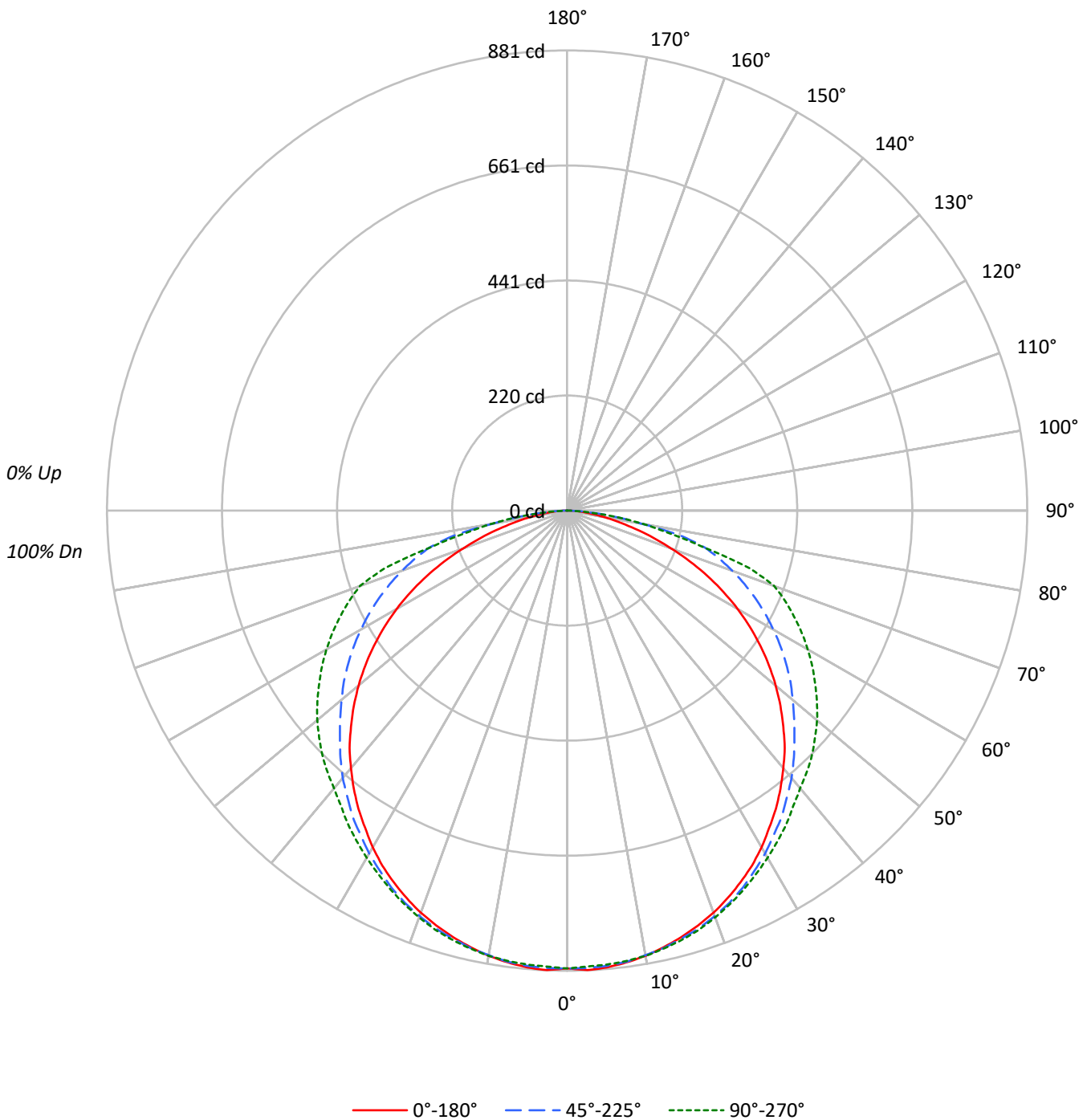
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263662

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263662

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

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°	1179	1179	1179
5°	1186	1182	1178
10°	1183	1181	1183
15°	1177	1181	1185
20°	1173	1183	1187
25°	1166	1182	1188
30°	1157	1178	1193
35°	1145	1176	1203
40°	1131	1174	1219
45°	1114	1171	1261
50°	1091	1180	1308
55°	1060	1201	1360
60°	1014	1227	1432
65°	945	1265	1525
70°	835	1323	1660
75°	700	1415	1394
80°	559	1118	1160
85°	442	756	693



TEST NUMBER: P263662

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	3.0
10°-20°	239.3	8.7
20°-30°	365.5	13.2
30°-40°	446.8	16.2
40°-50°	478.2	17.3
50°-60°	458.7	16.6
60°-70°	387.3	14.0
70°-80°	247.5	9.0
80°-90°	58.5	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
0°-30°	687.9	24.9
0°-40°	1134.6	41.0
0°-60°	2071.6	74.9
0°-90°	2765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	878	872	875	874	872	83
15°	845	842	848	851	851	239
25°	785	784	796	799	800	362
35°	697	702	716	725	732	436
45°	585	595	615	644	663	451
55°	452	467	512	558	580	403
65°	297	325	397	453	479	293
75°	135	192	272	278	268	145
85°	29	48	49	48	45	34
90°	0	0	0	0	0	



TEST NUMBER: P263662

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.5	876.5	876.5	876.5	876.5
2.5°	880.6	875.2	876.5	876.5	873.8
5°	877.9	872.4	875.2	873.8	872.4
7.5°	872.4	868.4	871.1	871.1	869.7
10°	865.6	861.6	864.3	865.6	865.6
12.5°	856.1	853.4	857.5	857.5	858.8
15°	845.2	842.5	847.9	850.7	850.7
17.5°	833.0	831.6	838.4	839.8	841.1
20°	819.4	818.0	826.2	826.2	828.9
22.5°	803.0	801.7	812.6	812.6	815.3
25°	785.3	784.0	796.2	798.9	800.3
27.5°	766.3	764.9	777.2	781.3	784.0
30°	744.5	744.5	758.1	763.6	767.6
32.5°	720.0	724.1	736.3	744.5	749.9
35°	696.9	702.3	715.9	725.4	732.3
37.5°	671.0	676.5	691.4	703.7	711.8
40°	643.8	650.6	668.3	681.9	694.1
42.5°	616.6	623.4	642.4	662.8	679.2
45°	585.3	594.8	615.2	643.8	662.8
47.5°	554.0	563.5	589.3	624.7	643.8
50°	521.3	532.2	563.5	604.3	624.7
52.5°	487.3	499.5	539.0	582.5	603.0
55°	451.9	466.8	511.8	558.0	579.8
57.5°	415.1	431.5	484.5	533.5	556.7
60°	377.0	397.4	456.0	507.7	532.2
62.5°	337.5	362.0	427.4	480.5	506.3
65°	296.7	325.3	397.4	453.2	479.1
67.5°	254.5	292.6	367.5	426.0	451.9
70°	212.3	257.2	336.2	396.1	421.9
72.5°	172.9	224.6	304.9	360.7	366.1
75°	134.7	191.9	272.2	277.7	268.1
77.5°	100.7	159.2	224.6	200.1	198.7
80°	72.1	127.9	144.3	148.4	149.7
82.5°	47.6	96.6	93.9	96.6	95.3
85°	28.6	47.6	49.0	47.6	44.9
87.5°	13.6	17.7	13.6	12.2	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)