

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: P263757

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263757
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2933.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

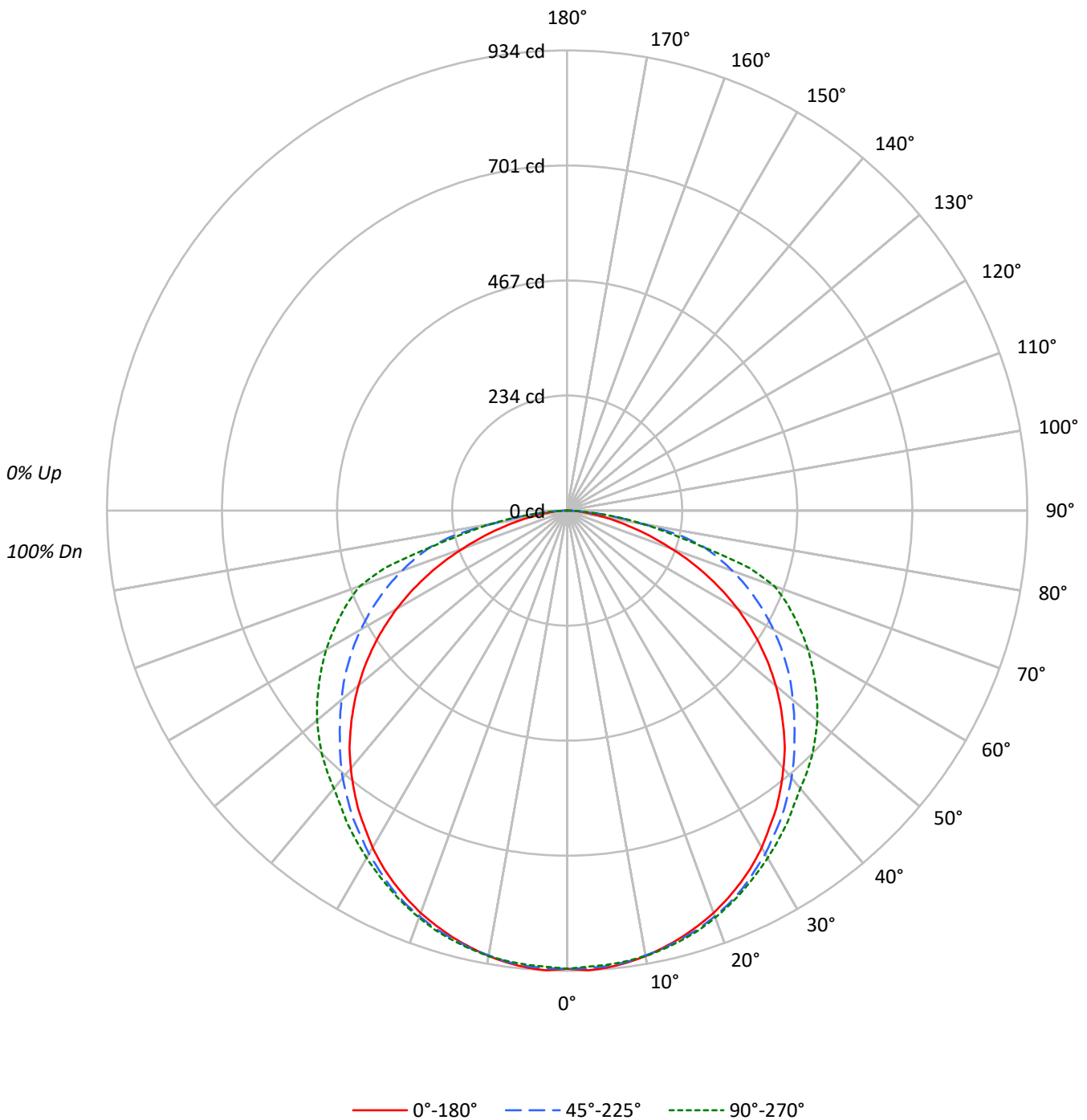
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263757

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263757

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K

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°	1251	1251	1251
5°	1258	1254	1250
10°	1254	1253	1254
15°	1249	1253	1257
20°	1244	1255	1259
25°	1237	1254	1260
30°	1227	1249	1265
35°	1214	1247	1276
40°	1199	1245	1293
45°	1181	1242	1338
50°	1158	1251	1387
55°	1124	1274	1443
60°	1076	1302	1519
65°	1002	1342	1618
70°	886	1403	1761
75°	743	1501	1478
80°	593	1185	1230
85°	468	803	735



TEST NUMBER: P263757

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.0
10°-20°	253.8	8.7
20°-30°	387.7	13.2
30°-40°	473.9	16.2
40°-50°	507.3	17.3
50°-60°	486.6	16.6
60°-70°	410.9	14.0
70°-80°	262.6	9.0
80°-90°	62.1	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°	729.6	24.9
0°-40°	1203.6	41.0
0°-60°	2197.5	74.9
0°-90°	2933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	931	926	928	927	926	88
15°	897	894	900	902	902	253
25°	833	832	845	848	849	384
35°	739	745	759	770	777	462
45°	621	631	653	683	703	479
55°	479	495	543	592	615	428
65°	315	345	422	481	508	310
75°	143	204	289	294	284	154
85°	30	50	52	50	48	36
90°	0	0	0	0	0	



TEST NUMBER: P263757

CATALOG NUMBER: 24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.8	929.8	929.8	929.8	929.8
2.5°	934.1	928.3	929.8	929.8	926.9
5°	931.2	925.5	928.3	926.9	925.5
7.5°	925.5	921.1	924.0	924.0	922.6
10°	918.2	913.9	916.8	918.2	918.2
12.5°	908.1	905.2	909.6	909.6	911.0
15°	896.6	893.7	899.5	902.4	902.4
17.5°	883.6	882.1	889.4	890.8	892.2
20°	869.1	867.7	876.4	876.4	879.3
22.5°	851.8	850.4	861.9	861.9	864.8
25°	833.1	831.6	844.6	847.5	848.9
27.5°	812.8	811.4	824.4	828.7	831.6
30°	789.7	789.7	804.2	810.0	814.3
32.5°	763.8	768.1	781.1	789.7	795.5
35°	739.2	745.0	759.4	769.5	776.7
37.5°	711.8	717.6	733.4	746.4	755.1
40°	682.9	690.1	708.9	723.3	736.3
42.5°	654.0	661.2	681.5	703.1	720.4
45°	620.8	630.9	652.6	682.9	703.1
47.5°	587.6	597.7	625.2	662.7	682.9
50°	553.0	564.5	597.7	641.0	662.7
52.5°	516.9	529.9	571.7	617.9	639.6
55°	479.3	495.2	542.9	591.9	615.0
57.5°	440.3	457.7	514.0	566.0	590.5
60°	399.9	421.6	483.7	538.5	564.5
62.5°	358.1	384.0	453.3	509.6	537.1
65°	314.7	345.1	421.6	480.8	508.2
67.5°	270.0	310.4	389.8	451.9	479.3
70°	225.2	272.9	356.6	420.1	447.6
72.5°	183.4	238.2	323.4	382.6	388.4
75°	142.9	203.6	288.8	294.5	284.4
77.5°	106.8	168.9	238.2	212.2	210.8
80°	76.5	135.7	153.0	157.4	158.8
82.5°	50.5	102.5	99.6	102.5	101.1
85°	30.3	50.5	52.0	50.5	47.6
87.5°	14.4	18.8	14.4	13.0	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)