

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: P263464

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

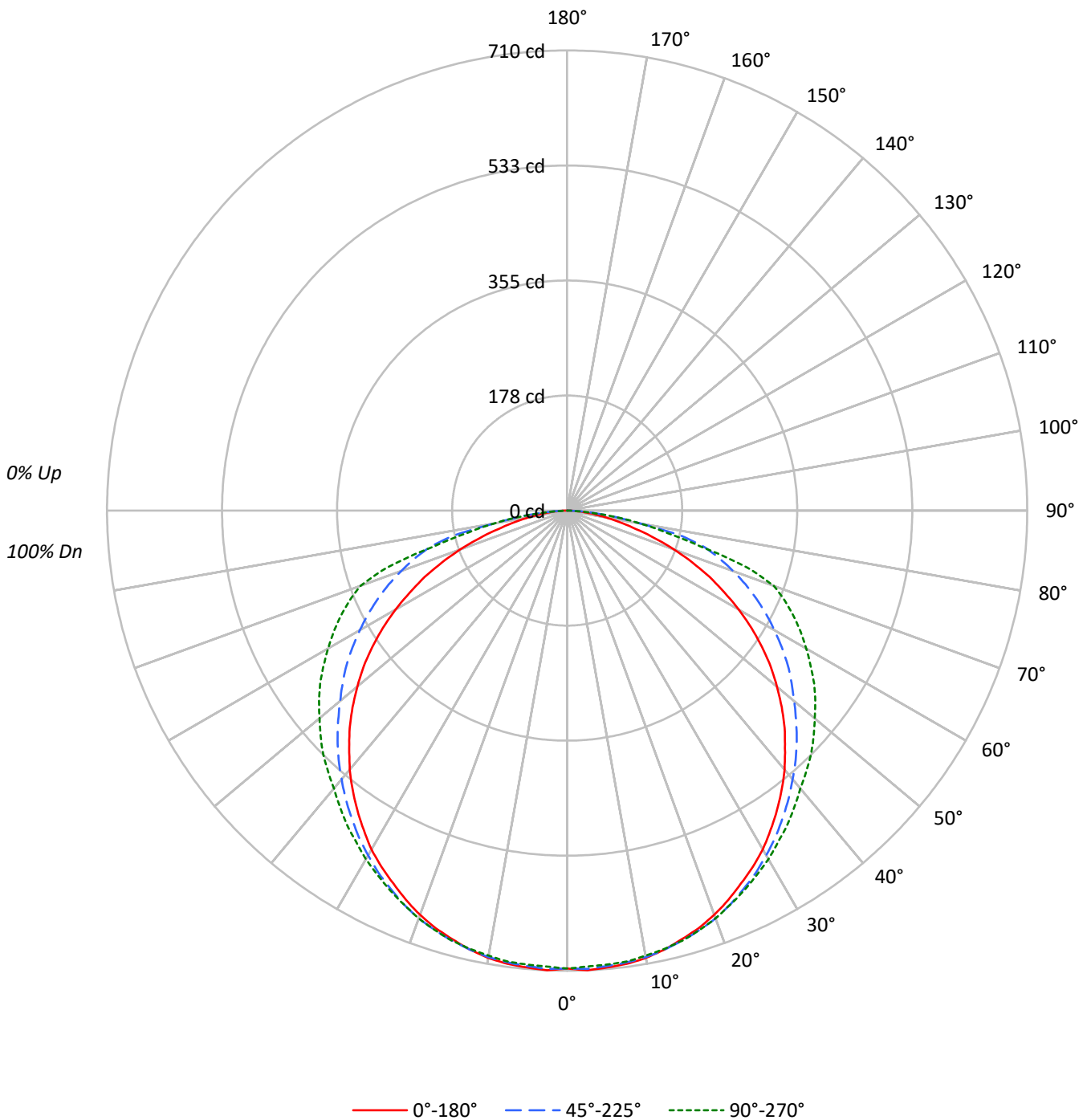
Input Watts (W): 27.249
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263464

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P263464

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	951	951	951
5°	956	953	950
10°	957	956	953
15°	954	957	957
20°	950	959	959
25°	943	956	960
30°	938	954	965
35°	927	952	973
40°	916	951	983
45°	903	953	1013
50°	884	957	1044
55°	861	975	1091
60°	823	994	1146
65°	772	1025	1228
70°	690	1072	1335
75°	570	1146	1104
80°	465	886	894
85°	374	588	553



TEST NUMBER: P263464

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.0
10°-20°	193.6	8.7
20°-30°	295.9	13.2
30°-40°	361.9	16.2
40°-50°	387.3	17.3
50°-60°	370.8	16.6
60°-70°	313.7	14.0
70°-80°	198.8	8.9
80°-90°	45.7	2.0
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°	556.7	24.9
0°-40°	918.6	41.1
0°-60°	1676.7	75.0
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	708	704	705	704	703	67
15°	685	683	687	687	687	193
25°	635	635	644	646	646	293
35°	564	568	580	588	592	353
45°	474	483	501	522	532	366
55°	367	379	416	450	465	327
65°	242	266	322	366	386	239
75°	110	155	220	219	212	119
85°	24	37	38	35	36	29
90°	0	0	0	0	0	



TEST NUMBER: P263464

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	706.5	706.5	706.5	706.5	706.5
2.5°	710.0	706.5	707.7	706.5	704.2
5°	707.7	704.2	705.4	704.2	703.1
7.5°	705.4	701.9	703.1	701.9	701.9
10°	700.8	697.3	699.6	698.4	697.3
12.5°	693.8	691.5	693.8	692.7	692.7
15°	684.6	683.4	686.9	686.9	686.9
17.5°	675.4	674.2	678.8	678.8	678.8
20°	663.8	662.7	669.6	669.6	669.6
22.5°	650.0	648.8	658.0	658.0	658.0
25°	634.9	634.9	644.2	646.5	646.5
27.5°	619.9	619.9	630.3	633.8	633.8
30°	603.8	603.8	614.2	618.8	621.1
32.5°	584.2	586.5	598.0	603.8	606.1
35°	564.5	568.0	579.5	587.6	592.2
37.5°	543.7	547.2	561.1	570.3	576.1
40°	521.8	526.4	541.4	553.0	559.9
42.5°	497.6	504.5	521.8	536.8	546.1
45°	474.5	482.6	501.0	521.8	532.2
47.5°	449.1	458.3	479.1	505.7	516.0
50°	422.5	431.8	457.2	487.2	498.7
52.5°	396.0	406.4	436.4	468.7	482.6
55°	367.1	378.7	415.6	450.2	465.2
57.5°	337.1	351.0	392.5	429.5	445.6
60°	305.9	323.2	369.4	408.7	426.0
62.5°	273.6	294.4	346.3	387.9	406.4
65°	242.4	265.5	322.1	366.0	385.6
67.5°	209.0	237.8	297.8	345.2	363.7
70°	175.5	209.0	272.5	320.9	339.4
72.5°	142.0	182.4	247.1	290.9	290.9
75°	109.7	154.7	220.5	219.3	212.4
77.5°	83.1	129.3	181.2	154.7	155.9
80°	60.0	103.9	114.3	114.3	115.4
82.5°	40.4	79.7	73.9	72.7	75.0
85°	24.2	36.9	38.1	34.6	35.8
87.5°	11.5	12.7	10.4	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)