

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: P263458

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263458
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

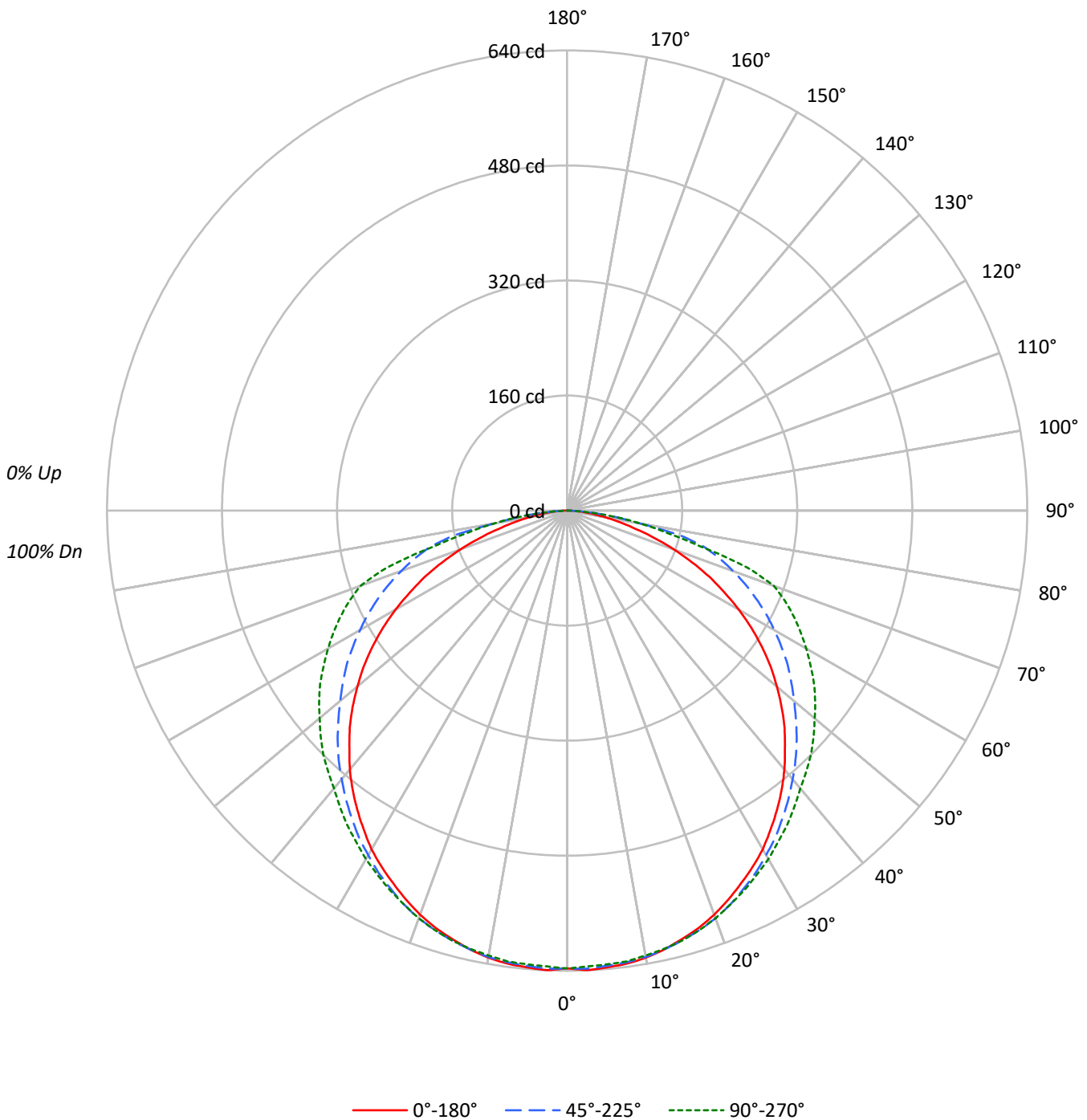
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263458

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263458

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-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	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°	857	857	857
5°	861	858	856
10°	863	861	858
15°	859	862	862
20°	857	864	864
25°	849	862	865
30°	845	860	870
35°	836	858	877
40°	826	857	886
45°	814	859	913
50°	797	862	941
55°	776	878	983
60°	742	896	1033
65°	696	924	1106
70°	622	966	1203
75°	514	1033	995
80°	419	798	806
85°	337	530	497



TEST NUMBER: P263458

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.0
10°-20°	174.5	8.7
20°-30°	266.7	13.2
30°-40°	326.1	16.2
40°-50°	349.0	17.3
50°-60°	334.2	16.6
60°-70°	282.7	14.0
70°-80°	179.2	8.9
80°-90°	41.2	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°	501.6	24.9
0°-40°	827.8	41.1
0°-60°	1510.9	75.0
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	638	635	636	635	634	61
15°	617	616	619	619	619	174
25°	572	572	580	583	583	264
35°	509	512	522	530	534	318
45°	428	435	452	470	480	329
55°	331	341	374	406	419	295
65°	218	239	290	330	348	215
75°	99	139	199	198	191	107
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



TEST NUMBER: P263458

CATALOG NUMBER: 24CZ-LD5-35SE-SQP-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	636.7	636.7	636.7	636.7	636.7
2.5°	639.8	636.7	637.7	636.7	634.6
5°	637.7	634.6	635.6	634.6	633.5
7.5°	635.6	632.5	633.5	632.5	632.5
10°	631.5	628.3	630.4	629.4	628.3
12.5°	625.2	623.1	625.2	624.2	624.2
15°	616.9	615.9	619.0	619.0	619.0
17.5°	608.6	607.5	611.7	611.7	611.7
20°	598.2	597.1	603.4	603.4	603.4
22.5°	585.7	584.6	593.0	593.0	593.0
25°	572.2	572.2	580.5	582.6	582.6
27.5°	558.6	558.6	568.0	571.1	571.1
30°	544.1	544.1	553.4	557.6	559.7
32.5°	526.4	528.5	538.9	544.1	546.2
35°	508.7	511.8	522.2	529.5	533.7
37.5°	490.0	493.1	505.6	513.9	519.1
40°	470.2	474.4	487.9	498.3	504.5
42.5°	448.4	454.6	470.2	483.7	492.1
45°	427.6	434.8	451.5	470.2	479.6
47.5°	404.7	413.0	431.7	455.7	465.0
50°	380.7	389.1	412.0	439.0	449.4
52.5°	356.8	366.2	393.2	422.4	434.8
55°	330.8	341.2	374.5	405.7	419.2
57.5°	303.8	316.3	353.7	387.0	401.6
60°	275.7	291.3	332.9	368.3	383.9
62.5°	246.6	265.3	312.1	349.5	366.2
65°	218.5	239.3	290.2	329.8	347.5
67.5°	188.3	214.3	268.4	311.0	327.7
70°	158.1	188.3	245.5	289.2	305.8
72.5°	128.0	164.4	222.6	262.2	262.2
75°	98.8	139.4	198.7	197.7	191.4
77.5°	74.9	116.5	163.3	139.4	140.4
80°	54.1	93.6	103.0	103.0	104.0
82.5°	36.4	71.8	66.6	65.5	67.6
85°	21.8	33.3	34.3	31.2	32.2
87.5°	10.4	11.4	9.4	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)