

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: P263153

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263153
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-LD5-35-SQP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.1 lumens
Efficiency: N/A
Efficacy: 80.4 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

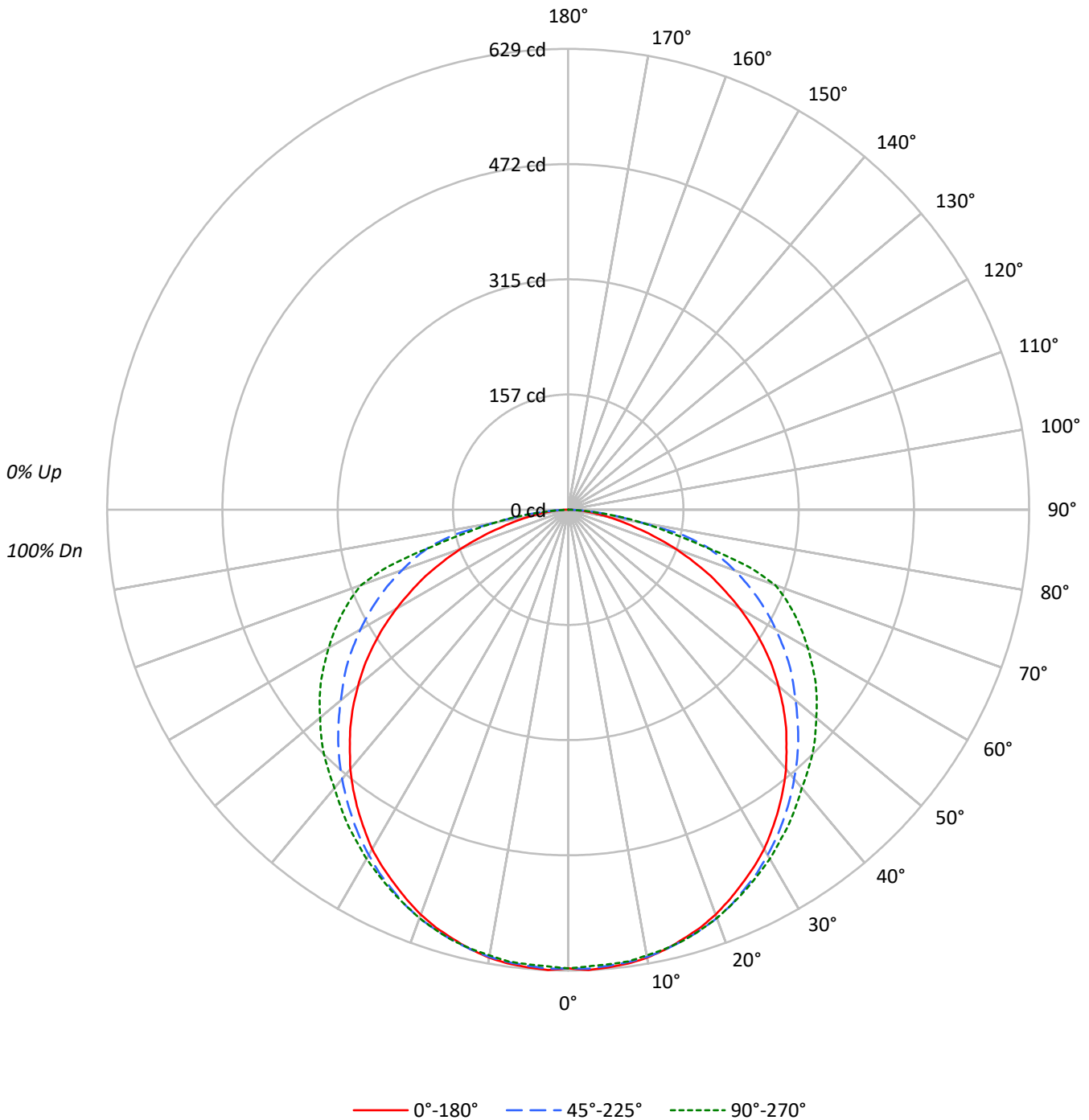
Input Watts (W): 24.63942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263153

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P263153

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L93050-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°	842	842	842
5°	847	844	841
10°	848	847	844
15°	845	848	848
20°	842	849	849
25°	835	847	850
30°	831	845	855
35°	822	843	862
40°	812	843	871
45°	800	845	897
50°	783	848	925
55°	763	864	967
60°	729	881	1016
65°	684	909	1088
70°	612	950	1183
75°	505	1016	978
80°	412	785	793
85°	332	522	489



TEST NUMBER: P263153

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.0
10°-20°	171.5	8.7
20°-30°	262.2	13.2
30°-40°	320.7	16.2
40°-50°	343.1	17.3
50°-60°	328.6	16.6
60°-70°	277.9	14.0
70°-80°	176.2	8.9
80°-90°	40.5	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°	493.2	24.9
0°-40°	813.8	41.1
0°-60°	1485.5	75.0
0°-90°	1980.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	627	624	625	624	623	60
15°	606	606	609	609	609	171
25°	562	562	571	573	573	260
35°	500	503	514	521	525	313
45°	420	428	444	462	472	324
55°	325	336	368	399	412	290
65°	215	235	285	324	342	212
75°	97	137	195	194	188	106
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



TEST NUMBER: P263153

CATALOG NUMBER: 24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.0	626.0	626.0	626.0	626.0
2.5°	629.0	626.0	627.0	626.0	623.9
5°	627.0	623.9	624.9	623.9	622.9
7.5°	624.9	621.9	622.9	621.9	621.9
10°	620.8	617.8	619.8	618.8	617.8
12.5°	614.7	612.7	614.7	613.7	613.7
15°	606.5	605.5	608.6	608.6	608.6
17.5°	598.3	597.3	601.4	601.4	601.4
20°	588.1	587.1	593.2	593.2	593.2
22.5°	575.8	574.8	583.0	583.0	583.0
25°	562.5	562.5	570.7	572.8	572.8
27.5°	549.2	549.2	558.5	561.5	561.5
30°	534.9	534.9	544.1	548.2	550.3
32.5°	517.5	519.6	529.8	534.9	537.0
35°	500.2	503.2	513.5	520.6	524.7
37.5°	481.7	484.8	497.1	505.3	510.4
40°	462.3	466.4	479.7	489.9	496.1
42.5°	440.8	447.0	462.3	475.6	483.8
45°	420.4	427.5	443.9	462.3	471.5
47.5°	397.9	406.1	424.5	448.0	457.2
50°	374.3	382.5	405.0	431.6	441.9
52.5°	350.8	360.0	386.6	415.3	427.5
55°	325.3	335.5	368.2	398.9	412.2
57.5°	298.7	310.9	347.8	380.5	394.8
60°	271.0	286.4	327.3	362.1	377.4
62.5°	242.4	260.8	306.8	343.7	360.0
65°	214.8	235.2	285.4	324.2	341.6
67.5°	185.1	210.7	263.9	305.8	322.2
70°	155.5	185.1	241.4	284.3	300.7
72.5°	125.8	161.6	218.9	257.7	257.7
75°	97.2	137.1	195.4	194.3	188.2
77.5°	73.6	114.6	160.6	137.1	138.1
80°	53.2	92.1	101.3	101.3	102.3
82.5°	35.8	70.6	65.5	64.4	66.5
85°	21.5	32.7	33.8	30.7	31.7
87.5°	10.2	11.3	9.2	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)