

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: P263155

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263155
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2175.8 lumens
Efficiency: N/A
Efficacy: 86.4 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

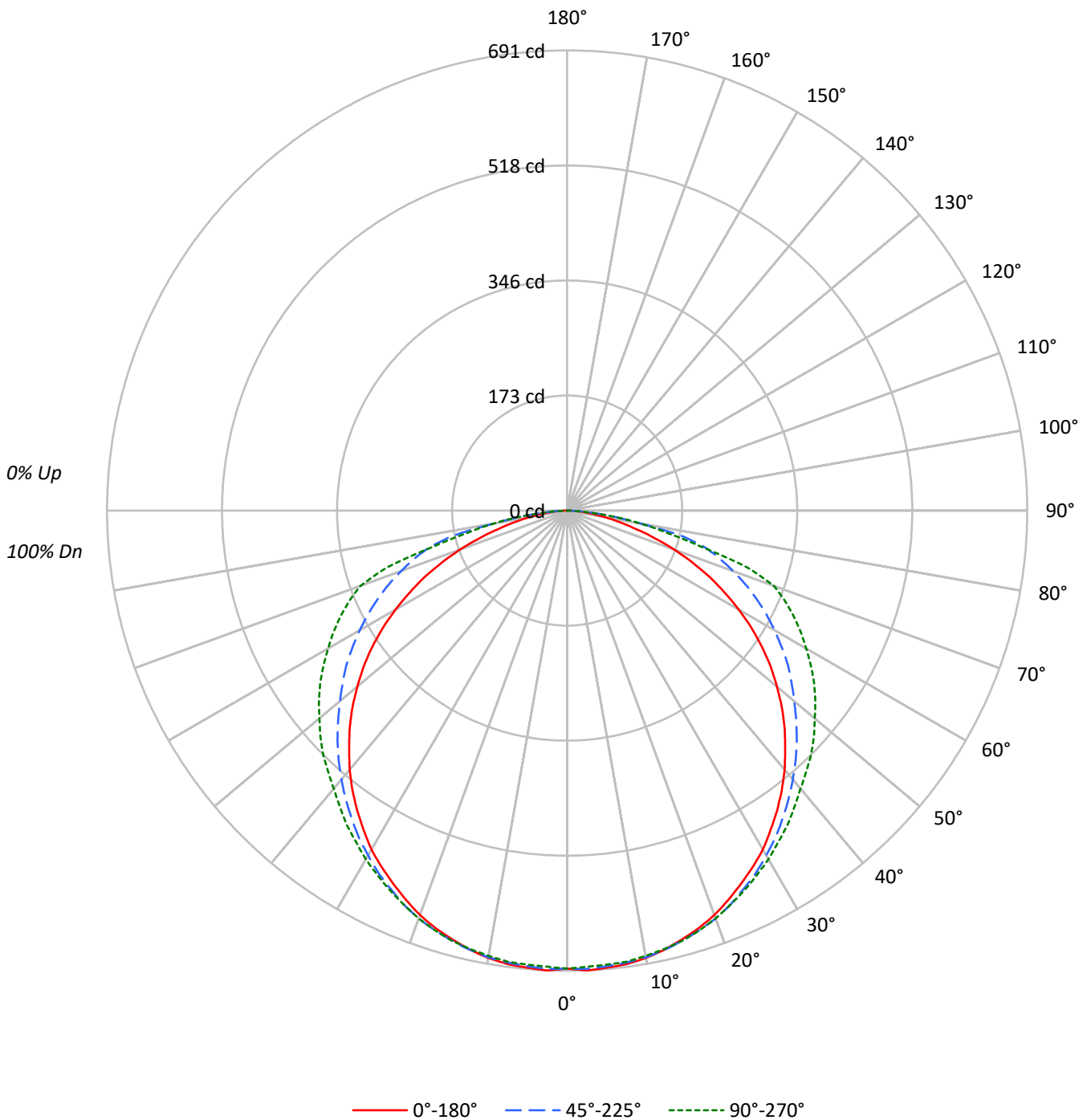
Input Watts (W): 25.19556
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	925	925	925
5°	930	927	924
10°	932	931	927
15°	928	931	931
20°	925	933	933
25°	918	931	934
30°	913	929	939
35°	903	927	947
40°	892	926	957
45°	879	928	986
50°	861	932	1016
55°	838	949	1062
60°	801	968	1116
65°	751	998	1195
70°	672	1043	1300
75°	555	1116	1075
80°	453	862	871
85°	364	573	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.0
10°-20°	188.5	8.7
20°-30°	288.1	13.2
30°-40°	352.4	16.2
40°-50°	377.0	17.3
50°-60°	361.0	16.6
60°-70°	305.4	14.0
70°-80°	193.6	8.9
80°-90°	44.5	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°	541.9	24.9
0°-40°	894.3	41.1
0°-60°	1632.3	75.0
0°-90°	2175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	686	687	686	684	66
15°	666	665	669	669	669	188
25°	618	618	627	629	629	285
35°	550	553	564	572	577	344
45°	462	470	488	508	518	356
55°	357	369	405	438	453	319
65°	236	258	314	356	375	232
75°	107	151	215	214	207	116
85°	24	36	37	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.8	687.8	687.8	687.8	687.8
2.5°	691.2	687.8	688.9	687.8	685.6
5°	688.9	685.6	686.7	685.6	684.4
7.5°	686.7	683.3	684.4	683.3	683.3
10°	682.2	678.8	681.1	680.0	678.8
12.5°	675.5	673.2	675.5	674.3	674.3
15°	666.5	665.3	668.7	668.7	668.7
17.5°	657.5	656.4	660.8	660.8	660.8
20°	646.2	645.1	651.9	651.9	651.9
22.5°	632.7	631.6	640.6	640.6	640.6
25°	618.1	618.1	627.1	629.4	629.4
27.5°	603.5	603.5	613.6	617.0	617.0
30°	587.8	587.8	597.9	602.4	604.7
32.5°	568.7	570.9	582.2	587.8	590.0
35°	549.6	553.0	564.2	572.1	576.6
37.5°	529.4	532.7	546.2	555.2	560.8
40°	508.0	512.5	527.1	538.3	545.1
42.5°	484.4	491.1	508.0	522.6	531.6
45°	461.9	469.8	487.8	508.0	518.1
47.5°	437.2	446.2	466.4	492.3	502.4
50°	411.3	420.3	445.1	474.3	485.5
52.5°	385.5	395.6	424.8	456.3	469.8
55°	357.4	368.6	404.6	438.3	452.9
57.5°	328.2	341.7	382.1	418.1	433.8
60°	297.8	314.7	359.6	397.9	414.7
62.5°	266.4	286.6	337.2	377.6	395.6
65°	236.0	258.5	313.6	356.3	375.4
67.5°	203.4	231.5	290.0	336.0	354.0
70°	170.8	203.4	265.2	312.4	330.4
72.5°	138.2	177.6	240.5	283.2	283.2
75°	106.8	150.6	214.7	213.5	206.8
77.5°	80.9	125.9	176.5	150.6	151.7
80°	58.4	101.1	111.3	111.3	112.4
82.5°	39.3	77.5	71.9	70.8	73.1
85°	23.6	36.0	37.1	33.7	34.8
87.5°	11.2	12.4	10.1	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)