

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: P263574

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263574
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-LD5-35-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2245.2 lumens
Efficiency: N/A
Efficacy: 90.5 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

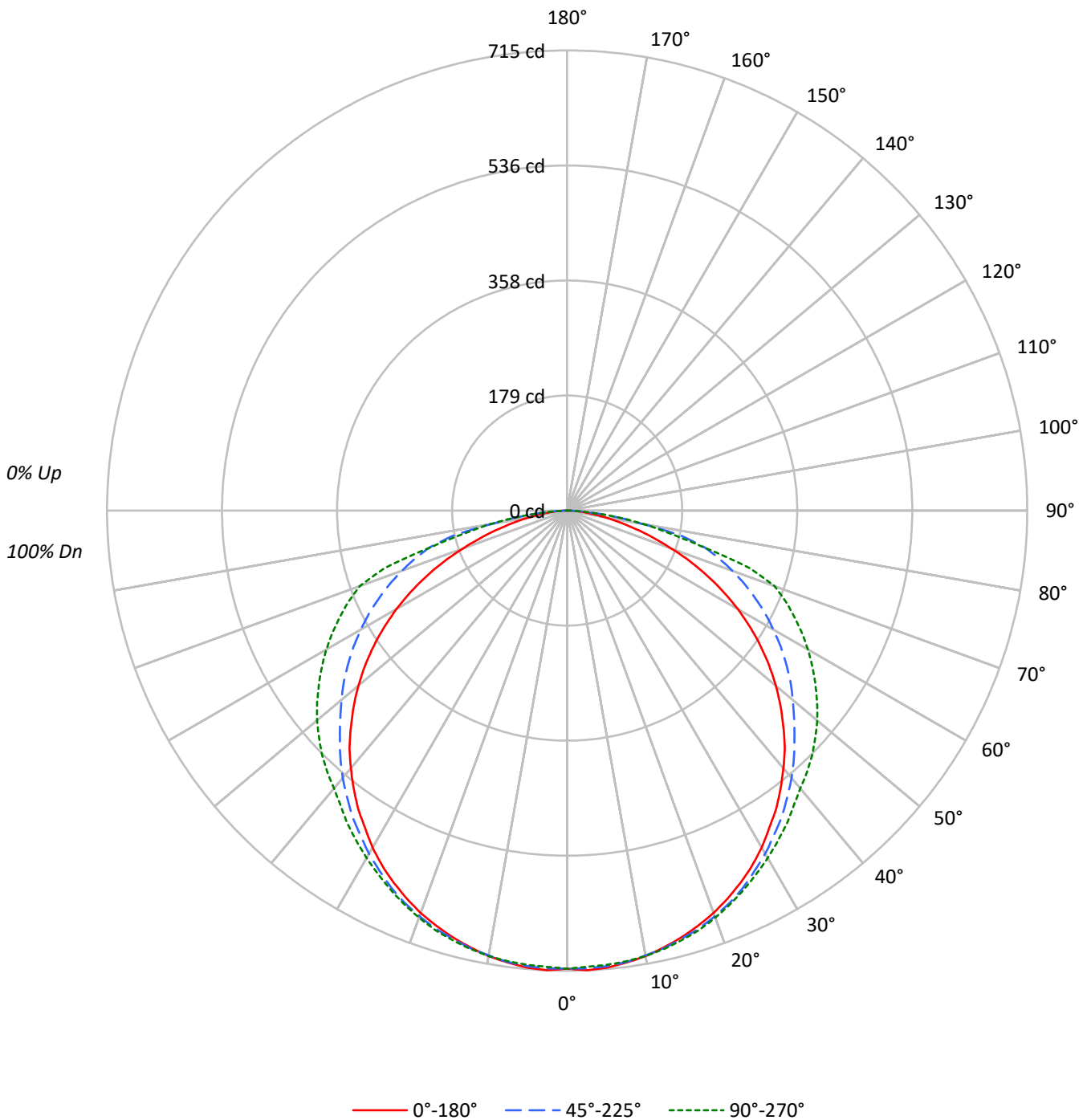
Input Watts (W): 24.80868
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	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°	958	958	958
5°	963	960	957
10°	960	959	960
15°	956	959	962
20°	953	960	964
25°	947	960	965
30°	939	956	968
35°	930	955	977
40°	918	953	990
45°	904	950	1024
50°	886	958	1062
55°	861	975	1104
60°	824	996	1163
65°	767	1027	1238
70°	678	1074	1348
75°	569	1149	1132
80°	454	907	942
85°	358	614	563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	194.3	8.7
20°-30°	296.7	13.2
30°-40°	362.8	16.2
40°-50°	388.3	17.3
50°-60°	372.5	16.6
60°-70°	314.5	14.0
70°-80°	201.0	9.0
80°-90°	47.6	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°	558.5	24.9
0°-40°	921.3	41.0
0°-60°	1682.1	74.9
0°-90°	2245.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2245.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	713	708	711	710	708	68
15°	686	684	688	691	691	194
25°	638	637	646	649	650	294
35°	566	570	581	589	595	354
45°	475	483	500	523	538	367
55°	367	379	416	453	471	327
65°	241	264	323	368	389	238
75°	109	156	221	226	218	118
85°	23	39	40	39	36	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.7	711.7	711.7	711.7	711.7
2.5°	715.0	710.6	711.7	711.7	709.5
5°	712.8	708.4	710.6	709.5	708.4
7.5°	708.4	705.1	707.3	707.3	706.2
10°	702.9	699.6	701.8	702.9	702.9
12.5°	695.2	692.9	696.3	696.3	697.4
15°	686.3	684.1	688.5	690.7	690.7
17.5°	676.4	675.3	680.8	681.9	683.0
20°	665.3	664.2	670.8	670.8	673.1
22.5°	652.1	650.9	659.8	659.8	662.0
25°	637.7	636.6	646.5	648.7	649.8
27.5°	622.2	621.1	631.1	634.4	636.6
30°	604.5	604.5	615.6	620.0	623.3
32.5°	584.6	588.0	597.9	604.5	609.0
35°	565.9	570.3	581.3	589.1	594.6
37.5°	544.9	549.3	561.4	571.4	578.0
40°	522.7	528.3	542.6	553.7	563.6
42.5°	500.6	506.2	521.6	538.2	551.5
45°	475.2	483.0	499.5	522.7	538.2
47.5°	449.8	457.5	478.5	507.3	522.7
50°	423.3	432.1	457.5	490.7	507.3
52.5°	395.7	405.6	437.6	473.0	489.6
55°	366.9	379.1	415.5	453.1	470.8
57.5°	337.1	350.3	393.4	433.2	452.0
60°	306.1	322.7	370.2	412.2	432.1
62.5°	274.1	294.0	347.0	390.1	411.1
65°	240.9	264.1	322.7	368.0	389.0
67.5°	206.7	237.6	298.4	345.9	366.9
70°	172.4	208.9	273.0	321.6	342.6
72.5°	140.4	182.4	247.6	292.9	297.3
75°	109.4	155.8	221.0	225.5	217.7
77.5°	81.8	129.3	182.4	162.5	161.4
80°	58.6	103.9	117.1	120.5	121.6
82.5°	38.7	78.5	76.3	78.5	77.4
85°	23.2	38.7	39.8	38.7	36.5
87.5°	11.1	14.4	11.1	9.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)