

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: P263548

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263548
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-LD5-35SE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2472.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

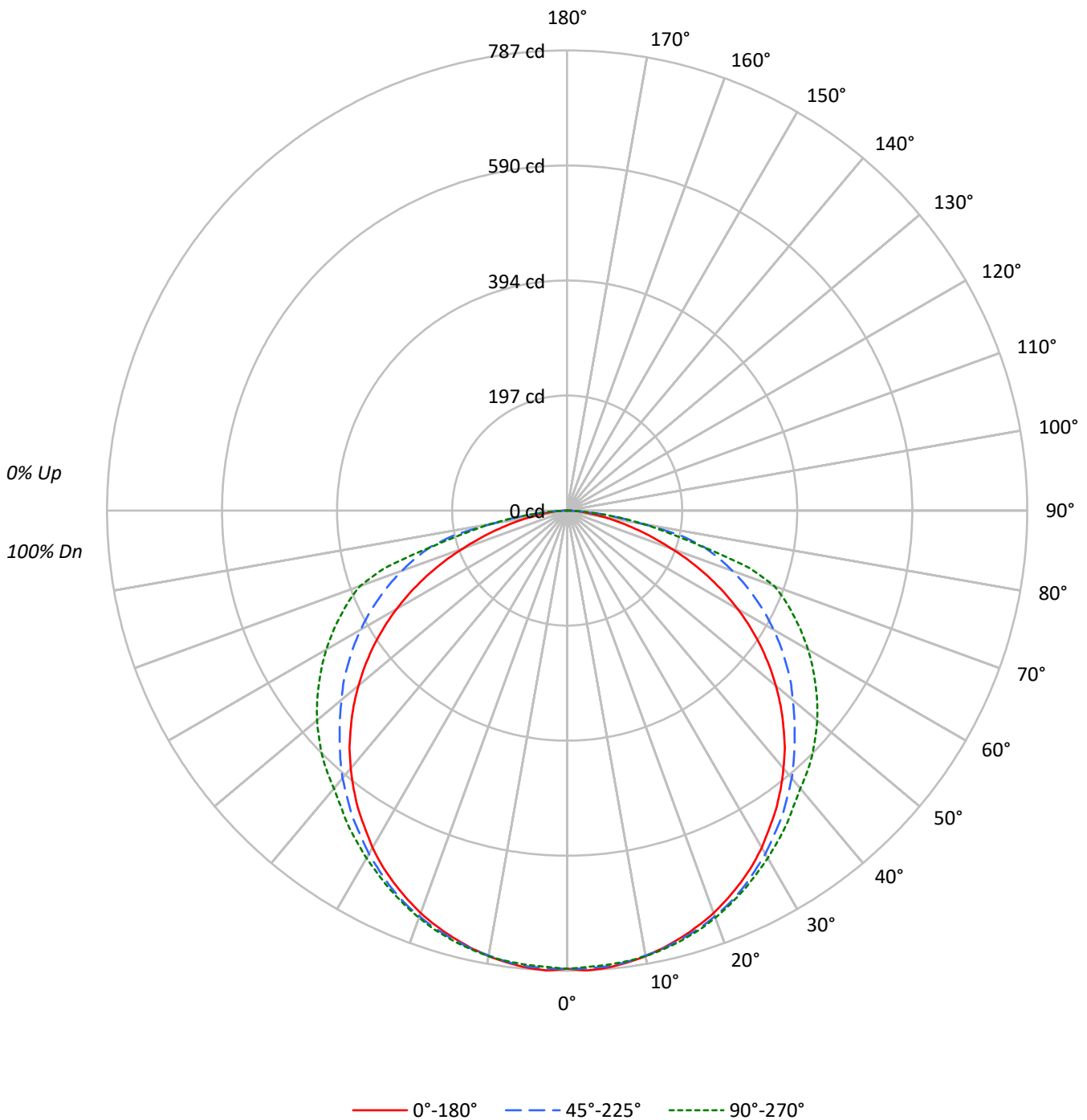
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	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	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°	1054	1054	1054
5°	1060	1057	1053
10°	1057	1056	1057
15°	1053	1056	1059
20°	1049	1058	1061
25°	1042	1057	1062
30°	1034	1053	1066
35°	1023	1051	1075
40°	1011	1049	1090
45°	996	1047	1128
50°	975	1055	1169
55°	948	1073	1216
60°	907	1097	1280
65°	845	1131	1364
70°	747	1183	1484
75°	626	1265	1246
80°	500	1000	1038
85°	395	676	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.0
10°-20°	213.9	8.7
20°-30°	326.7	13.2
30°-40°	399.5	16.2
40°-50°	427.6	17.3
50°-60°	410.1	16.6
60°-70°	346.3	14.0
70°-80°	221.3	9.0
80°-90°	52.3	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°	615.0	24.9
0°-40°	1014.4	41.0
0°-60°	1852.1	74.9
0°-90°	2472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	785	780	782	781	780	75
15°	756	753	758	760	760	213
25°	702	701	712	714	716	324
35°	623	628	640	649	655	390
45°	523	532	550	576	593	404
55°	404	417	458	499	518	361
65°	265	291	355	405	428	262
75°	120	172	243	248	240	130
85°	26	43	44	43	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.6	783.6	783.6	783.6	783.6
2.5°	787.3	782.4	783.6	783.6	781.2
5°	784.9	780.0	782.4	781.2	780.0
7.5°	780.0	776.3	778.8	778.8	777.6
10°	773.9	770.3	772.7	773.9	773.9
12.5°	765.4	763.0	766.6	766.6	767.8
15°	755.7	753.2	758.1	760.5	760.5
17.5°	744.7	743.5	749.6	750.8	752.0
20°	732.5	731.3	738.6	738.6	741.1
22.5°	717.9	716.7	726.5	726.5	728.9
25°	702.1	700.9	711.9	714.3	715.5
27.5°	685.1	683.9	694.8	698.5	700.9
30°	665.6	665.6	677.8	682.6	686.3
32.5°	643.7	647.4	658.3	665.6	670.5
35°	623.0	627.9	640.1	648.6	654.7
37.5°	599.9	604.8	618.2	629.1	636.4
40°	575.6	581.6	597.5	609.6	620.6
42.5°	551.2	557.3	574.3	592.6	607.2
45°	523.2	531.8	550.0	575.6	592.6
47.5°	495.3	503.8	526.9	558.5	575.6
50°	466.0	475.8	503.8	540.3	558.5
52.5°	435.6	446.6	481.9	520.8	539.1
55°	404.0	417.4	457.5	498.9	518.4
57.5°	371.1	385.7	433.2	477.0	497.7
60°	337.1	355.3	407.6	453.9	475.8
62.5°	301.8	323.7	382.1	429.5	452.7
65°	265.3	290.8	355.3	405.2	428.3
67.5°	227.5	261.6	328.5	380.9	404.0
70°	189.8	230.0	300.6	354.1	377.2
72.5°	154.5	200.8	272.6	322.5	327.3
75°	120.5	171.6	243.4	248.2	239.7
77.5°	90.0	142.4	200.8	178.9	177.7
80°	64.5	114.4	129.0	132.6	133.9
82.5°	42.6	86.4	84.0	86.4	85.2
85°	25.6	42.6	43.8	42.6	40.2
87.5°	12.2	15.8	12.2	11.0	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)