

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: P263637

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263637
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-LD5-50SE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.6 lumens
Efficiency: N/A
Efficacy: 66.6 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

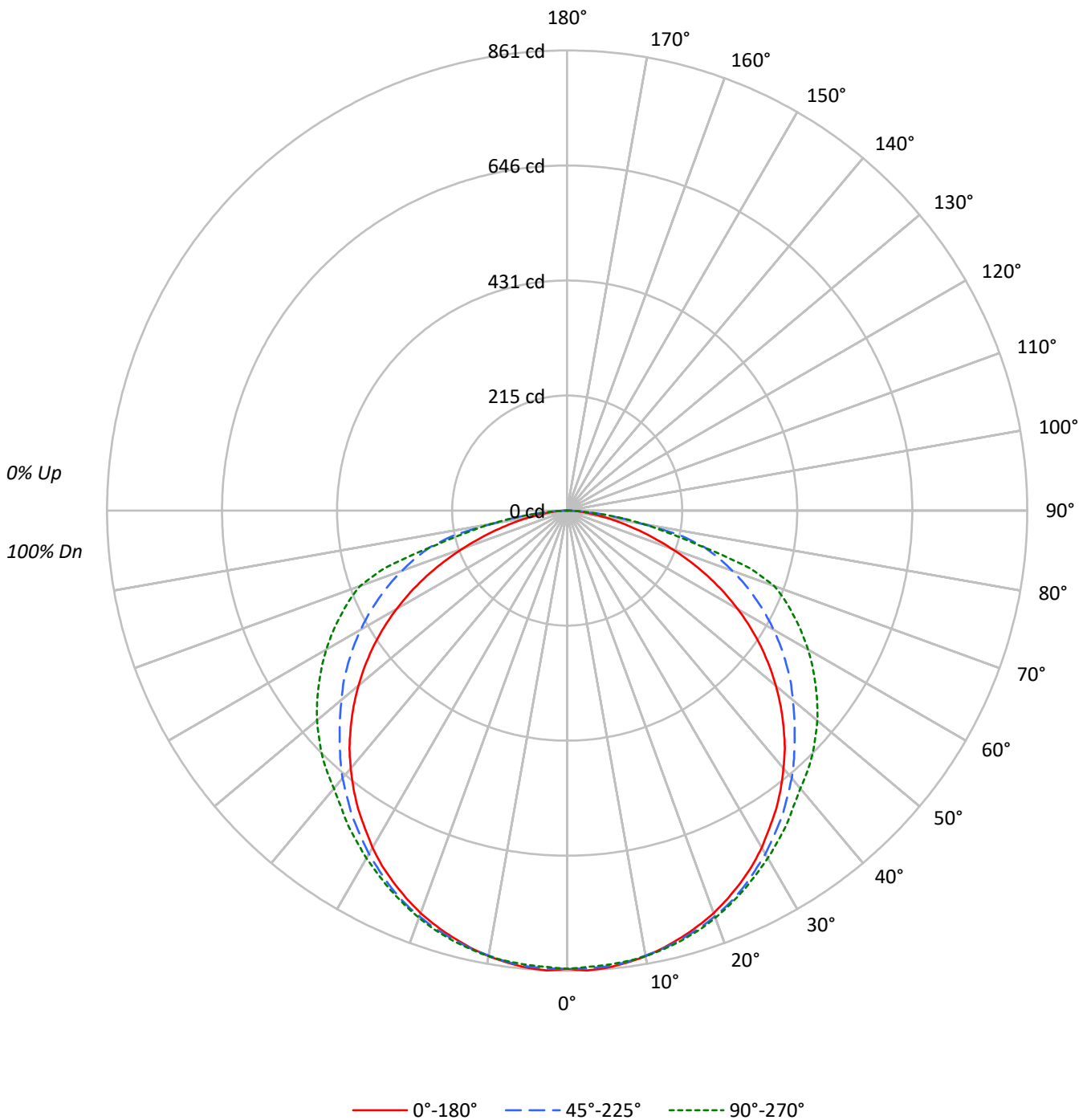
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1154	1154	1154
5°	1160	1156	1153
10°	1157	1155	1157
15°	1152	1155	1159
20°	1148	1157	1161
25°	1140	1156	1162
30°	1131	1152	1167
35°	1120	1150	1177
40°	1106	1148	1193
45°	1089	1145	1234
50°	1067	1154	1279
55°	1037	1174	1331
60°	992	1200	1401
65°	924	1238	1492
70°	817	1293	1624
75°	685	1384	1364
80°	547	1093	1134
85°	432	739	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.0
10°-20°	234.0	8.7
20°-30°	357.5	13.2
30°-40°	437.0	16.2
40°-50°	467.8	17.3
50°-60°	448.7	16.6
60°-70°	378.9	14.0
70°-80°	242.1	9.0
80°-90°	57.3	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°	672.8	24.9
0°-40°	1109.9	41.0
0°-60°	2026.4	74.9
0°-90°	2704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	859	853	856	855	853	82
15°	827	824	829	832	832	233
25°	768	767	779	782	783	354
35°	682	687	700	710	716	426
45°	572	582	602	630	648	442
55°	442	457	501	546	567	394
65°	290	318	389	443	469	286
75°	132	188	266	272	262	142
85°	28	47	48	47	44	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.4	857.4	857.4	857.4	857.4
2.5°	861.4	856.1	857.4	857.4	854.7
5°	858.7	853.4	856.1	854.7	853.4
7.5°	853.4	849.4	852.1	852.1	850.7
10°	846.7	842.7	845.4	846.7	846.7
12.5°	837.4	834.8	838.8	838.8	840.1
15°	826.8	824.1	829.4	832.1	832.1
17.5°	814.8	813.5	820.1	821.4	822.8
20°	801.5	800.1	808.1	808.1	810.8
22.5°	785.5	784.2	794.8	794.8	797.5
25°	768.2	766.9	778.8	781.5	782.8
27.5°	749.6	748.2	760.2	764.2	766.9
30°	728.2	728.2	741.6	746.9	750.9
32.5°	704.3	708.3	720.3	728.2	733.6
35°	681.7	687.0	700.3	709.6	716.3
37.5°	656.4	661.7	676.3	688.3	696.3
40°	629.7	636.4	653.7	667.0	679.0
42.5°	603.1	609.8	628.4	648.4	664.3
45°	572.5	581.8	601.8	629.7	648.4
47.5°	541.9	551.2	576.5	611.1	629.7
50°	509.9	520.6	551.2	591.1	611.1
52.5°	476.6	488.6	527.2	569.8	589.8
55°	442.0	456.7	500.6	545.9	567.2
57.5°	406.1	422.0	474.0	521.9	544.5
60°	368.8	388.8	446.0	496.6	520.6
62.5°	330.2	354.1	418.0	470.0	495.3
65°	290.2	318.2	388.8	443.3	468.6
67.5°	249.0	286.2	359.5	416.7	442.0
70°	207.7	251.6	328.8	387.4	412.7
72.5°	169.1	219.7	298.2	352.8	358.1
75°	131.8	187.7	266.3	271.6	262.3
77.5°	98.5	155.8	219.7	195.7	194.4
80°	70.6	125.1	141.1	145.1	146.4
82.5°	46.6	94.5	91.9	94.5	93.2
85°	28.0	46.6	47.9	46.6	43.9
87.5°	13.3	17.3	13.3	12.0	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)