

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: P296637

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

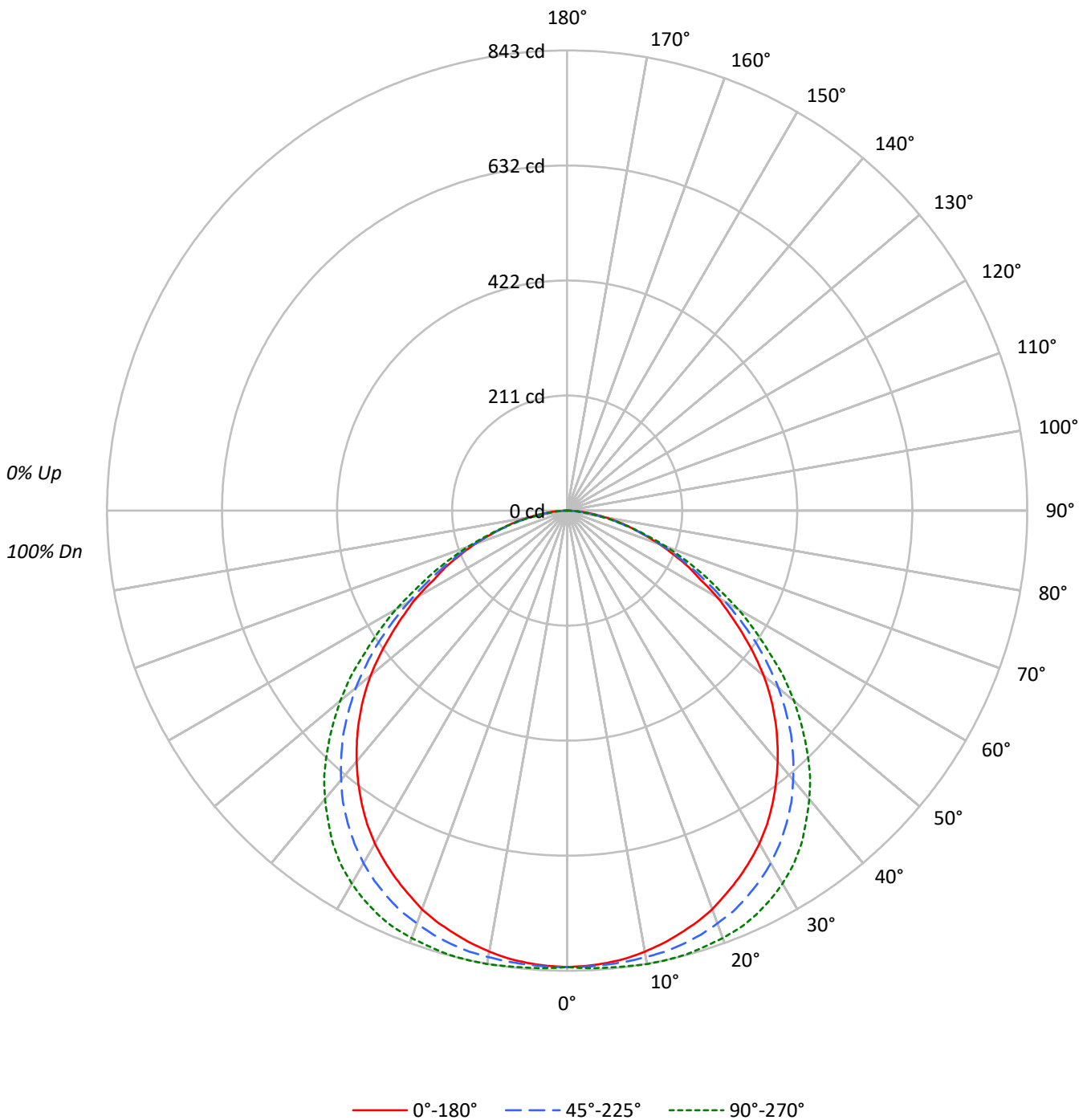
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2247	2255	2270
10°	2242	2269	2305
15°	2234	2290	2345
20°	2227	2304	2386
25°	2206	2317	2428
30°	2189	2318	2452
35°	2154	2300	2455
40°	2108	2263	2425
45°	2049	2207	2365
50°	1966	2116	2272
55°	1841	1982	2116
60°	1711	1803	1950
65°	1568	1623	1733
70°	1419	1442	1510
75°	1251	1221	1265
80°	1088	998	955
85°	883	664	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.4
10°-20°	232.2	9.9
20°-30°	359.7	15.4
30°-40°	437.8	18.7
40°-50°	445.9	19.0
50°-60°	376.0	16.1
60°-70°	254.4	10.9
70°-80°	127.1	5.4
80°-90°	28.3	1.2
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°	671.5	28.7
0°-40°	1109.3	47.4
0°-60°	1931.2	82.5
0°-90°	2341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	832	833	835	839	840	79
15°	802	808	822	836	842	226
25°	743	755	780	806	818	343
35°	656	670	700	733	747	410
45°	538	548	580	610	621	415
55°	392	398	422	442	451	351
65°	246	242	255	266	272	243
75°	120	116	117	119	122	129
85°	29	24	22	19	19	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.2	836.2	836.2	836.2	836.2
2.5°	834.8	834.8	836.2	837.6	839.1
5°	831.9	833.3	834.8	839.1	840.5
7.5°	827.6	829.1	833.3	839.1	841.9
10°	820.5	823.3	830.5	839.1	843.4
12.5°	811.9	816.2	827.6	837.6	843.4
15°	801.8	807.6	821.9	836.2	841.9
17.5°	790.4	797.6	814.7	830.5	837.6
20°	777.5	786.1	804.7	824.8	833.3
22.5°	760.3	771.8	794.7	817.6	827.6
25°	743.1	754.6	780.4	806.1	817.6
27.5°	724.5	737.4	764.6	793.3	804.7
30°	704.5	715.9	746.0	776.1	789.0
32.5°	681.6	693.0	724.5	756.0	770.3
35°	655.8	670.1	700.2	733.1	747.4
37.5°	628.6	641.5	674.4	705.9	718.8
40°	600.0	612.8	644.3	677.3	690.2
42.5°	569.9	582.8	612.8	644.3	658.7
45°	538.4	548.4	579.9	610.0	621.4
47.5°	505.5	512.6	542.7	571.3	582.8
50°	469.7	476.8	505.5	531.2	542.7
52.5°	431.0	436.7	463.9	486.8	499.7
55°	392.3	398.1	422.4	442.4	451.0
57.5°	353.7	356.5	378.0	398.1	406.7
60°	317.9	317.9	335.1	350.8	362.3
62.5°	276.4	280.6	293.5	309.3	313.6
65°	246.3	242.0	254.9	266.3	272.1
67.5°	211.9	209.1	217.6	227.7	230.5
70°	180.4	176.1	183.3	189.0	191.9
72.5°	147.5	146.1	148.9	153.2	154.6
75°	120.3	116.0	117.4	118.8	121.7
77.5°	95.9	88.8	90.2	88.8	90.2
80°	70.2	64.4	64.4	63.0	61.6
82.5°	47.3	44.4	41.5	38.7	37.2
85°	28.6	24.3	21.5	18.6	18.6
87.5°	11.5	8.6	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)