

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: P296589

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296589
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-L82765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2340.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

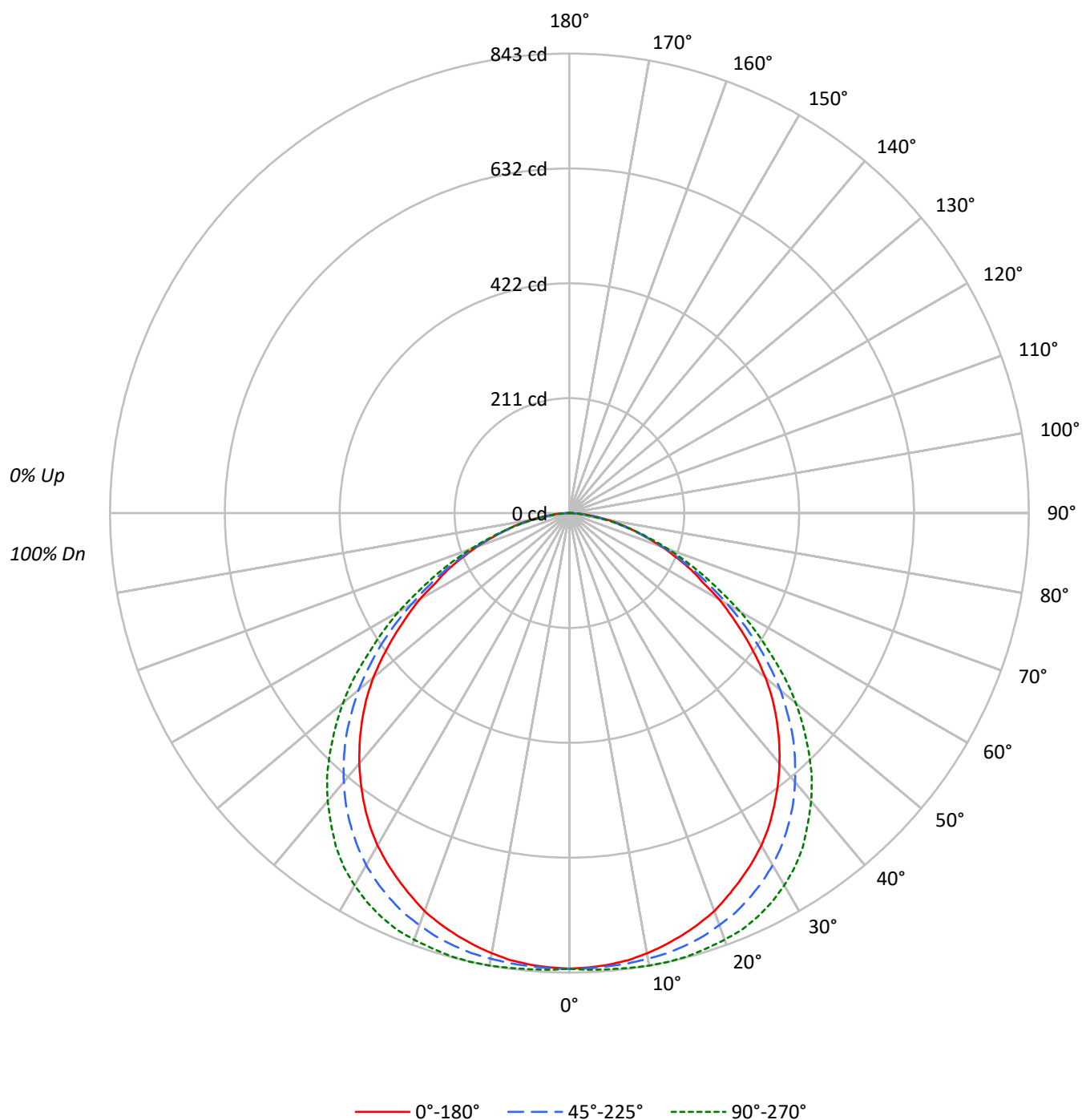
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	2249	2249	2249
5°	2246	2254	2269
10°	2241	2268	2303
15°	2233	2289	2345
20°	2226	2304	2385
25°	2205	2316	2426
30°	2188	2317	2450
35°	2153	2299	2454
40°	2107	2263	2423
45°	2048	2206	2364
50°	1966	2115	2271
55°	1840	1981	2115
60°	1710	1802	1949
65°	1568	1622	1731
70°	1419	1441	1509
75°	1250	1221	1265
80°	1086	998	953
85°	883	664	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.4
10°-20°	232.1	9.9
20°-30°	359.6	15.4
30°-40°	437.6	18.7
40°-50°	445.7	19.0
50°-60°	375.9	16.1
60°-70°	254.3	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°	671.2	28.7
0°-40°	1108.9	47.4
0°-60°	1930.4	82.5
0°-90°	2340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	832	833	834	839	840	79
15°	802	807	822	836	842	226
25°	743	754	780	806	817	342
35°	656	670	700	733	747	410
45°	538	548	580	610	621	414
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°	835.9	835.9	835.9	835.9	835.9
2.5°	834.4	834.4	835.9	837.3	838.7
5°	831.6	833.0	834.4	838.7	840.1
7.5°	827.3	828.7	833.0	838.7	841.6
10°	820.1	823.0	830.1	838.7	843.0
12.5°	811.5	815.8	827.3	837.3	843.0
15°	801.5	807.2	821.5	835.9	841.6
17.5°	790.1	797.2	814.4	830.1	837.3
20°	777.2	785.8	804.4	824.4	833.0
22.5°	760.0	771.4	794.3	817.2	827.3
25°	742.8	754.3	780.0	805.8	817.2
27.5°	724.2	737.1	764.3	792.9	804.4
30°	704.2	715.6	745.7	775.7	788.6
32.5°	681.3	692.7	724.2	755.7	770.0
35°	655.5	669.8	699.9	732.8	747.1
37.5°	628.3	641.2	674.1	705.6	718.5
40°	599.7	612.6	644.1	677.0	689.9
42.5°	569.6	582.5	612.6	644.1	658.4
45°	538.2	548.2	579.7	609.7	621.2
47.5°	505.2	512.4	542.4	571.1	582.5
50°	469.5	476.6	505.2	531.0	542.4
52.5°	430.8	436.5	463.7	486.6	499.5
55°	392.2	397.9	422.2	442.3	450.8
57.5°	353.5	356.4	377.9	397.9	406.5
60°	317.7	317.7	334.9	350.7	362.1
62.5°	276.2	280.5	293.4	309.2	313.4
65°	246.2	241.9	254.8	266.2	271.9
67.5°	211.8	209.0	217.6	227.6	230.4
70°	180.3	176.0	183.2	188.9	191.8
72.5°	147.4	146.0	148.9	153.1	154.6
75°	120.2	115.9	117.4	118.8	121.7
77.5°	95.9	88.7	90.2	88.7	90.2
80°	70.1	64.4	64.4	63.0	61.5
82.5°	47.2	44.4	41.5	38.6	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)