

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: P296688

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296688
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-LD5-35-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

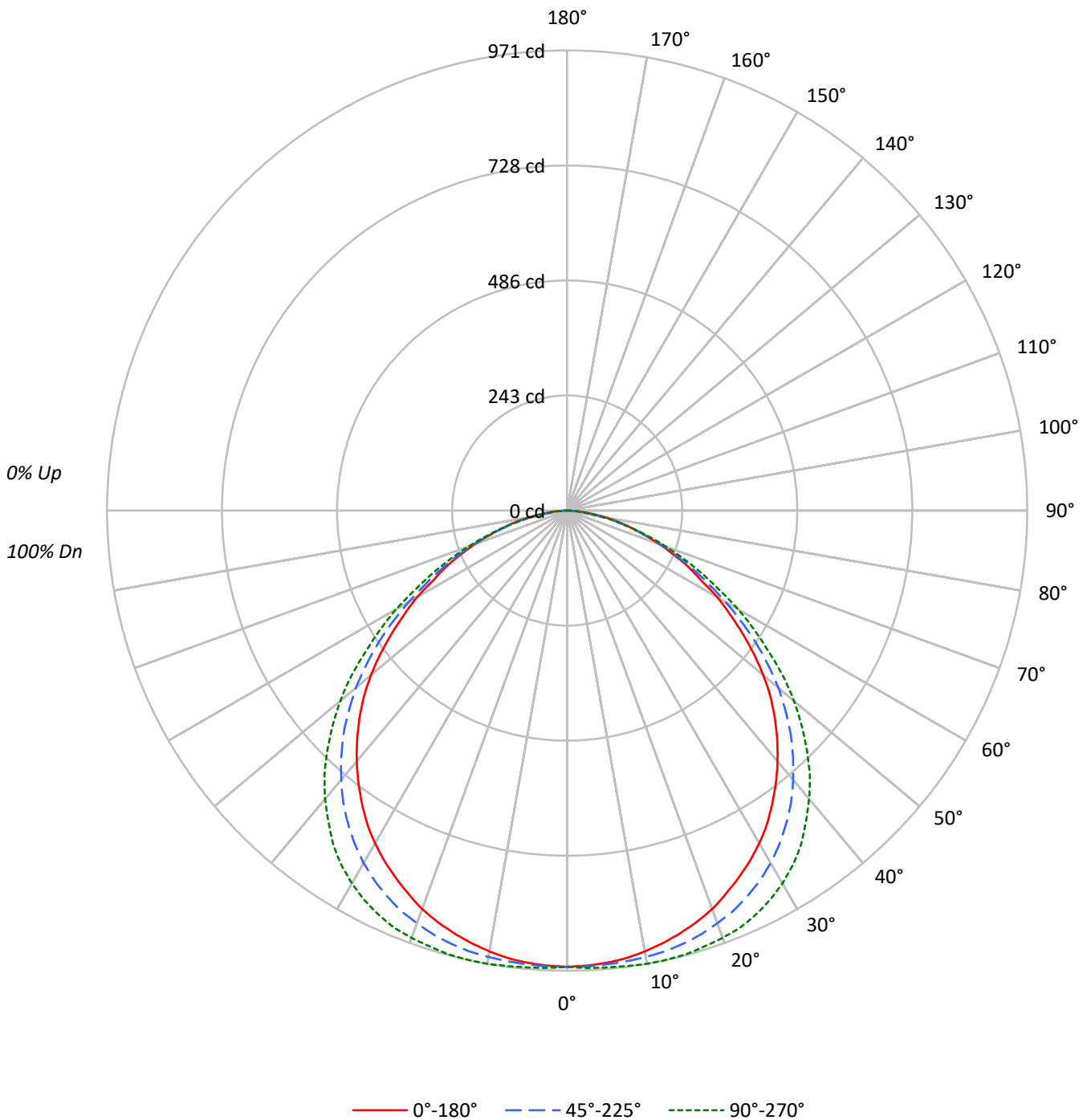
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2591	2591	2591
5°	2587	2596	2614
10°	2581	2613	2653
15°	2572	2636	2700
20°	2563	2653	2747
25°	2540	2667	2795
30°	2520	2669	2822
35°	2480	2648	2827
40°	2426	2606	2791
45°	2359	2541	2723
50°	2264	2436	2615
55°	2119	2282	2436
60°	1969	2076	2244
65°	1805	1868	1994
70°	1634	1660	1738
75°	1440	1406	1457
80°	1252	1150	1099
85°	1019	763	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	3.4
10°-20°	267.3	9.9
20°-30°	414.1	15.4
30°-40°	504.0	18.7
40°-50°	513.3	19.0
50°-60°	432.9	16.1
60°-70°	292.8	10.9
70°-80°	146.3	5.4
80°-90°	32.5	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°	773.1	28.7
0°-40°	1277.1	47.4
0°-60°	2223.3	82.5
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	958	959	961	966	968	91
15°	923	930	946	963	969	261
25°	856	869	898	928	941	394
35°	755	771	806	844	860	472
45°	620	631	668	702	715	477
55°	452	458	486	509	519	404
65°	284	279	293	307	313	280
75°	138	134	135	137	140	148
85°	33	28	25	21	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	962.7	962.7	962.7	962.7	962.7
2.5°	961.0	961.0	962.7	964.3	966.0
5°	957.7	959.4	961.0	966.0	967.6
7.5°	952.8	954.4	959.4	966.0	969.3
10°	944.5	947.8	956.1	966.0	970.9
12.5°	934.6	939.6	952.8	964.3	970.9
15°	923.1	929.7	946.2	962.7	969.3
17.5°	909.9	918.2	937.9	956.1	964.3
20°	895.1	905.0	926.4	949.5	959.4
22.5°	875.3	888.5	914.9	941.2	952.8
25°	855.5	868.7	898.4	928.0	941.2
27.5°	834.1	848.9	880.2	913.2	926.4
30°	811.0	824.2	858.8	893.4	908.3
32.5°	784.6	797.8	834.1	870.4	886.8
35°	755.0	771.4	806.1	844.0	860.5
37.5°	723.6	738.5	776.4	812.7	827.5
40°	690.7	705.5	741.8	779.7	794.5
42.5°	656.1	670.9	705.5	741.8	758.3
45°	619.8	631.3	667.6	702.2	715.4
47.5°	581.9	590.1	624.7	657.7	670.9
50°	540.7	548.9	581.9	611.6	624.7
52.5°	496.2	502.8	534.1	560.5	575.3
55°	451.7	458.3	486.3	509.4	519.2
57.5°	407.2	410.5	435.2	458.3	468.1
60°	365.9	365.9	385.7	403.9	417.0
62.5°	318.1	323.1	337.9	356.1	361.0
65°	283.5	278.6	293.4	306.6	313.2
67.5°	244.0	240.7	250.6	262.1	265.4
70°	207.7	202.8	211.0	217.6	220.9
72.5°	169.8	168.1	171.4	176.4	178.0
75°	138.5	133.5	135.2	136.8	140.1
77.5°	110.4	102.2	103.8	102.2	103.8
80°	80.8	74.2	74.2	72.5	70.9
82.5°	54.4	51.1	47.8	44.5	42.9
85°	33.0	28.0	24.7	21.4	21.4
87.5°	13.2	9.9	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)