

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: P296692

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296692
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-LD5-40-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2646.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

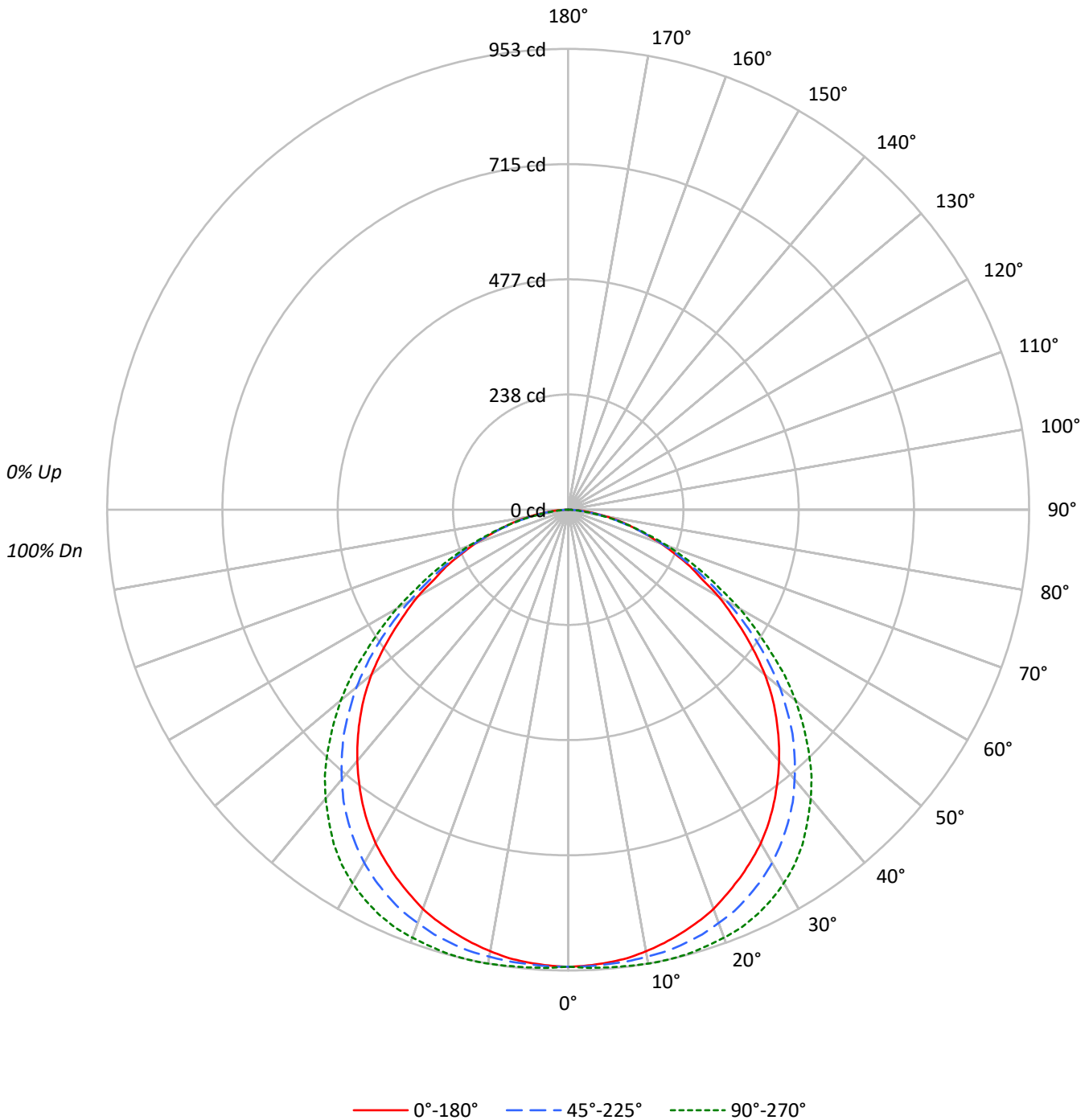
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2544	2544	2544
5°	2540	2549	2566
10°	2534	2565	2605
15°	2525	2588	2651
20°	2517	2605	2697
25°	2494	2619	2744
30°	2474	2620	2771
35°	2435	2600	2775
40°	2382	2558	2740
45°	2316	2495	2673
50°	2222	2392	2568
55°	2080	2240	2392
60°	1934	2038	2204
65°	1773	1834	1958
70°	1604	1630	1707
75°	1413	1380	1431
80°	1229	1128	1079
85°	1000	750	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.4
10°-20°	262.4	9.9
20°-30°	406.6	15.4
30°-40°	494.8	18.7
40°-50°	504.0	19.0
50°-60°	425.0	16.1
60°-70°	287.5	10.9
70°-80°	143.7	5.4
80°-90°	32.0	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°	759.0	28.7
0°-40°	1253.9	47.4
0°-60°	2182.9	82.5
0°-90°	2646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	940	942	944	948	950	89
15°	906	913	929	945	952	256
25°	840	853	882	911	924	387
35°	741	757	791	829	845	463
45°	608	620	656	689	702	469
55°	443	450	477	500	510	397
65°	278	274	288	301	308	275
75°	136	131	133	134	138	146
85°	32	28	24	21	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.2	945.2	945.2	945.2	945.2
2.5°	943.5	943.5	945.2	946.8	948.4
5°	940.3	941.9	943.5	948.4	950.0
7.5°	935.4	937.1	941.9	948.4	951.6
10°	927.4	930.6	938.7	948.4	953.3
12.5°	917.6	922.5	935.4	946.8	953.3
15°	906.3	912.8	929.0	945.2	951.6
17.5°	893.4	901.5	920.9	938.7	946.8
20°	878.8	888.5	909.6	932.2	941.9
22.5°	859.4	872.3	898.2	924.1	935.4
25°	840.0	852.9	882.0	911.2	924.1
27.5°	818.9	833.5	864.2	896.6	909.6
30°	796.3	809.2	843.2	877.2	891.8
32.5°	770.4	783.3	818.9	854.5	870.7
35°	741.2	757.4	791.4	828.6	844.8
37.5°	710.5	725.1	762.3	797.9	812.4
40°	678.1	692.7	728.3	765.5	780.1
42.5°	644.1	658.7	692.7	728.3	744.5
45°	608.5	619.9	655.5	689.4	702.4
47.5°	571.3	579.4	613.4	645.8	658.7
50°	530.8	538.9	571.3	600.4	613.4
52.5°	487.1	493.6	524.4	550.3	564.8
55°	443.4	449.9	477.4	500.1	509.8
57.5°	399.8	403.0	427.3	449.9	459.6
60°	359.3	359.3	378.7	396.5	409.5
62.5°	312.4	317.2	331.8	349.6	354.4
65°	278.4	273.5	288.1	301.0	307.5
67.5°	239.5	236.3	246.0	257.3	260.6
70°	203.9	199.1	207.2	213.6	216.9
72.5°	166.7	165.1	168.3	173.2	174.8
75°	135.9	131.1	132.7	134.3	137.6
77.5°	108.4	100.3	102.0	100.3	102.0
80°	79.3	72.8	72.8	71.2	69.6
82.5°	53.4	50.2	46.9	43.7	42.1
85°	32.4	27.5	24.3	21.0	21.0
87.5°	12.9	9.7	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)