

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: P296557

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296557
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-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

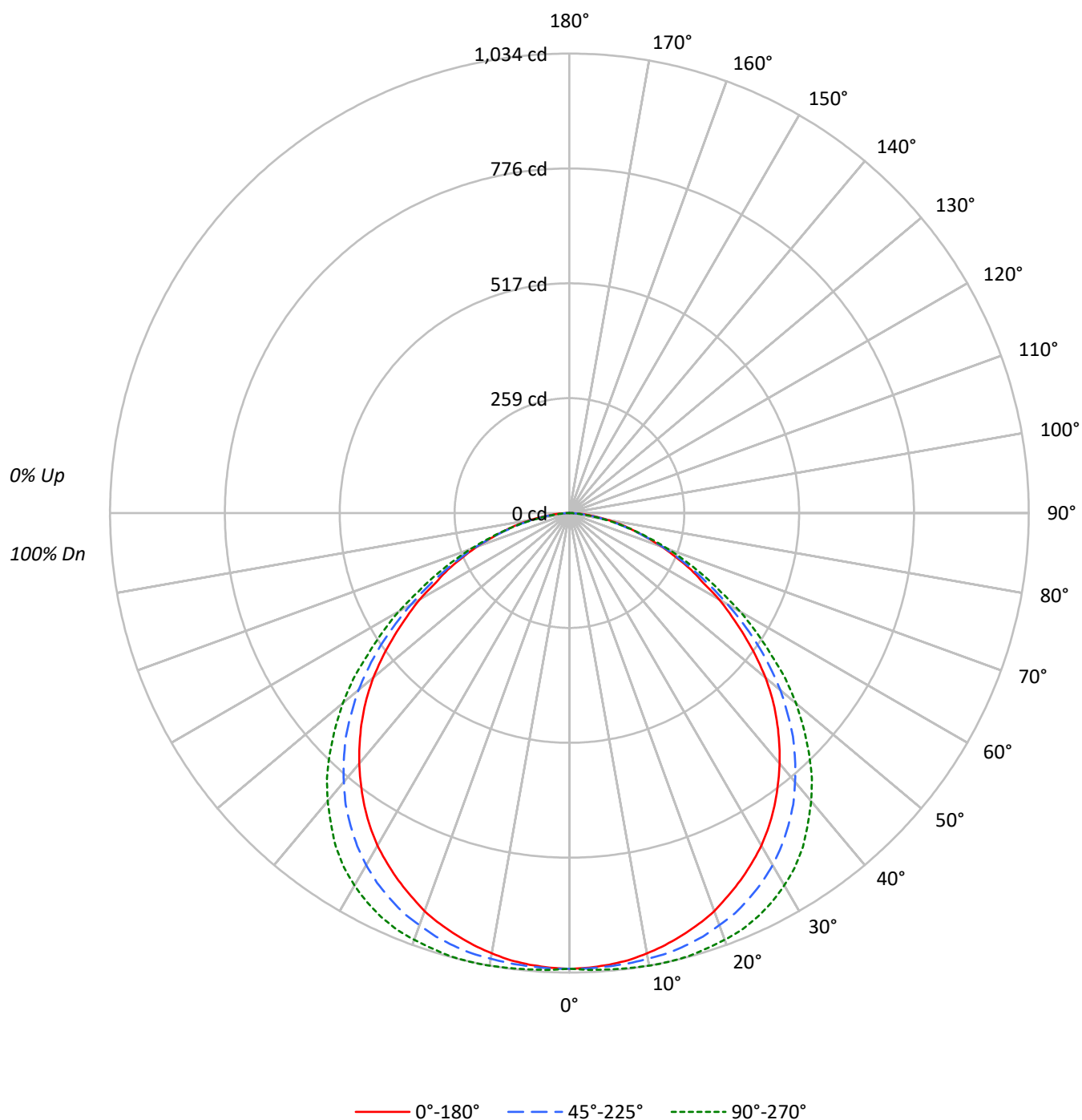
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2756	2766	2784
10°	2749	2783	2826
15°	2740	2808	2877
20°	2731	2826	2927
25°	2706	2841	2977
30°	2685	2843	3007
35°	2642	2821	3011
40°	2585	2776	2973
45°	2513	2707	2900
50°	2411	2595	2786
55°	2258	2430	2595
60°	2098	2211	2391
65°	1923	1990	2124
70°	1741	1769	1851
75°	1534	1497	1552
80°	1333	1224	1170
85°	1084	812	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.4
10°-20°	284.7	9.9
20°-30°	441.2	15.4
30°-40°	536.9	18.7
40°-50°	546.8	19.0
50°-60°	461.2	16.1
60°-70°	311.9	10.9
70°-80°	155.9	5.4
80°-90°	34.7	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°	823.6	28.7
0°-40°	1360.5	47.4
0°-60°	2368.5	82.5
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1020	1022	1024	1029	1031	97
15°	983	990	1008	1026	1033	278
25°	911	925	957	989	1003	420
35°	804	822	859	899	917	503
45°	660	673	711	748	762	508
55°	481	488	518	543	553	430
65°	302	297	313	327	334	298
75°	148	142	144	146	149	158
85°	35	30	26	23	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	1023.8	1023.8	1025.5	1027.3	1029.0
5°	1020.3	1022.0	1023.8	1029.0	1030.8
7.5°	1015.0	1016.8	1022.0	1029.0	1032.6
10°	1006.2	1009.7	1018.5	1029.0	1034.3
12.5°	995.7	1000.9	1015.0	1027.3	1034.3
15°	983.4	990.4	1008.0	1025.5	1032.6
17.5°	969.3	978.1	999.2	1018.5	1027.3
20°	953.5	964.1	986.9	1011.5	1022.0
22.5°	932.5	946.5	974.6	1002.7	1015.0
25°	911.4	925.4	957.0	988.7	1002.7
27.5°	888.6	904.4	937.7	972.8	986.9
30°	864.0	878.0	914.9	951.8	967.6
32.5°	835.9	849.9	888.6	927.2	944.8
35°	804.3	821.8	858.7	899.1	916.7
37.5°	770.9	786.7	827.1	865.7	881.5
40°	735.8	751.6	790.2	830.6	846.4
42.5°	698.9	714.7	751.6	790.2	807.8
45°	660.3	672.6	711.2	748.1	762.1
47.5°	619.9	628.7	665.5	700.7	714.7
50°	576.0	584.8	619.9	651.5	665.5
52.5°	528.6	535.6	569.0	597.1	612.9
55°	481.2	488.2	518.0	542.6	553.2
57.5°	433.7	437.3	463.6	488.2	498.7
60°	389.8	389.8	410.9	430.2	444.3
62.5°	338.9	344.2	360.0	379.3	384.6
65°	302.0	296.8	312.6	326.6	333.6
67.5°	259.9	256.4	266.9	279.2	282.7
70°	221.3	216.0	224.8	231.8	235.3
72.5°	180.9	179.1	182.6	187.9	189.7
75°	147.5	142.2	144.0	145.8	149.3
77.5°	117.7	108.9	110.6	108.9	110.6
80°	86.0	79.0	79.0	77.3	75.5
82.5°	57.9	54.4	50.9	47.4	45.7
85°	35.1	29.9	26.3	22.8	22.8
87.5°	14.0	10.5	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)