

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: P296647

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296647
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-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: 2981.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

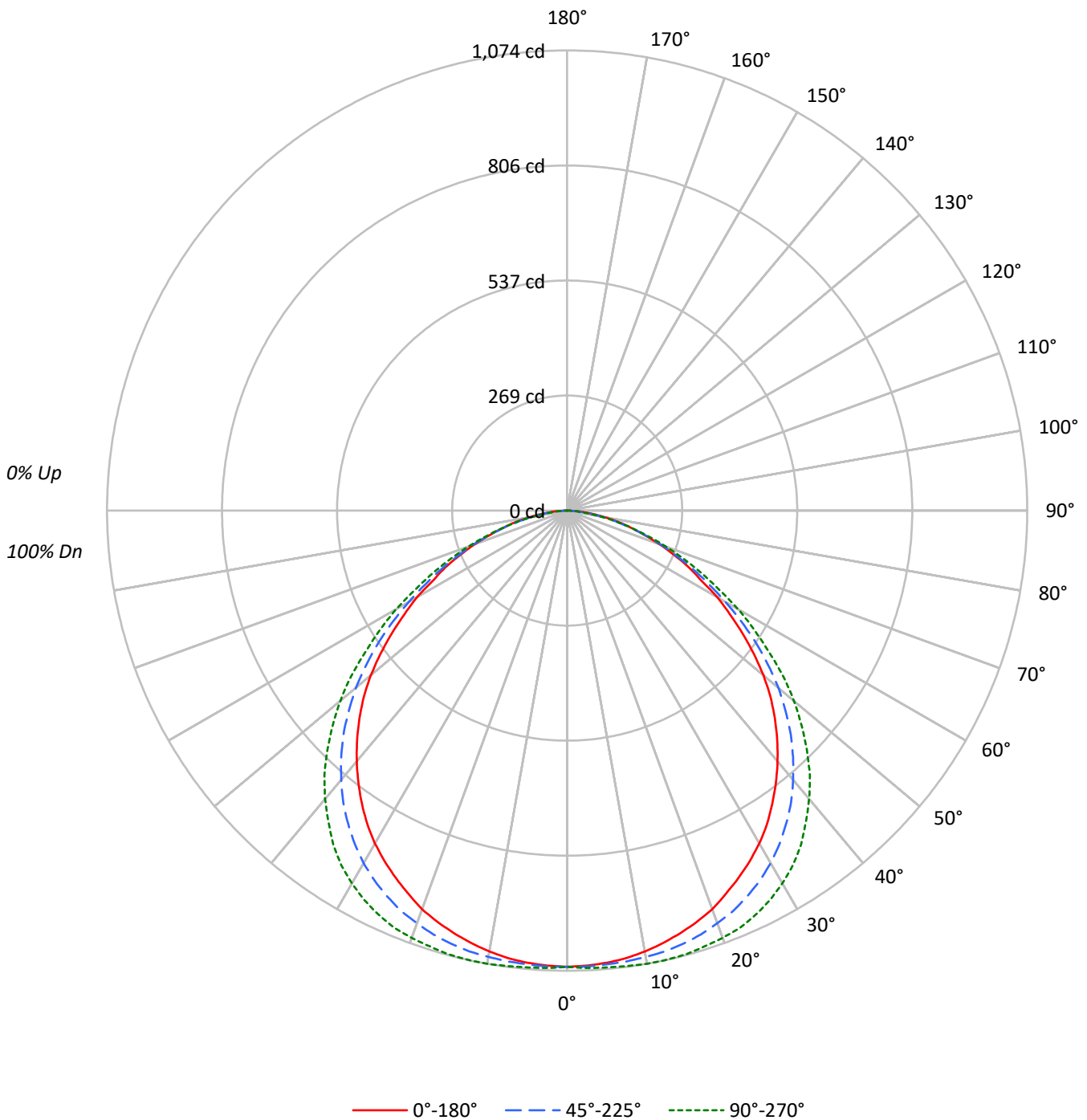
Input Watts (W): 32.922
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2865	2865	2865
5°	2862	2871	2891
10°	2855	2890	2934
15°	2845	2916	2987
20°	2835	2934	3039
25°	2810	2950	3091
30°	2788	2952	3122
35°	2743	2929	3127
40°	2684	2882	3087
45°	2609	2810	3011
50°	2504	2694	2893
55°	2344	2524	2694
60°	2179	2296	2483
65°	1997	2067	2206
70°	1807	1836	1922
75°	1593	1554	1612
80°	1384	1271	1215
85°	1127	843	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.4
10°-20°	295.7	9.9
20°-30°	458.1	15.4
30°-40°	557.5	18.7
40°-50°	567.8	19.0
50°-60°	478.8	16.1
60°-70°	323.9	10.9
70°-80°	161.9	5.4
80°-90°	36.0	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°	855.1	28.7
0°-40°	1412.6	47.4
0°-60°	2459.2	82.5
0°-90°	2981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1059	1061	1063	1068	1070	101
15°	1021	1028	1047	1065	1072	288
25°	946	961	994	1026	1041	436
35°	835	853	892	934	952	522
45°	686	698	738	777	791	528
55°	500	507	538	563	574	447
65°	314	308	325	339	346	310
75°	153	148	150	151	155	164
85°	36	31	27	24	24	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.8	1064.8	1064.8	1064.8	1064.8
2.5°	1063.0	1063.0	1064.8	1066.6	1068.5
5°	1059.4	1061.2	1063.0	1068.5	1070.3
7.5°	1053.9	1055.7	1061.2	1068.5	1072.1
10°	1044.8	1048.4	1057.5	1068.5	1073.9
12.5°	1033.8	1039.3	1053.9	1066.6	1073.9
15°	1021.1	1028.4	1046.6	1064.8	1072.1
17.5°	1006.5	1015.6	1037.5	1057.5	1066.6
20°	990.1	1001.0	1024.7	1050.2	1061.2
22.5°	968.2	982.8	1011.9	1041.1	1053.9
25°	946.3	960.9	993.7	1026.5	1041.1
27.5°	922.6	939.0	973.7	1010.1	1024.7
30°	897.1	911.7	950.0	988.2	1004.7
32.5°	867.9	882.5	922.6	962.7	981.0
35°	835.1	853.3	891.6	933.5	951.8
37.5°	800.4	816.9	858.8	898.9	915.3
40°	764.0	780.4	820.5	862.4	878.8
42.5°	725.7	742.1	780.4	820.5	838.7
45°	685.6	698.3	738.4	776.7	791.3
47.5°	643.6	652.8	691.0	727.5	742.1
50°	598.1	607.2	643.6	676.5	691.0
52.5°	548.8	556.1	590.8	619.9	636.3
55°	499.6	506.9	537.9	563.4	574.3
57.5°	450.4	454.0	481.4	506.9	517.8
60°	404.8	404.8	426.7	446.7	461.3
62.5°	351.9	357.4	373.8	393.8	399.3
65°	313.6	308.1	324.6	339.1	346.4
67.5°	269.9	266.2	277.1	289.9	293.6
70°	229.7	224.3	233.4	240.7	244.3
72.5°	187.8	186.0	189.6	195.1	196.9
75°	153.2	147.7	149.5	151.3	155.0
77.5°	122.2	113.0	114.9	113.0	114.9
80°	89.3	82.0	82.0	80.2	78.4
82.5°	60.2	56.5	52.9	49.2	47.4
85°	36.5	31.0	27.3	23.7	23.7
87.5°	14.6	10.9	9.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)