

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: P296694

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296694
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-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: 2868.0 lumens
Efficiency: N/A
Efficacy: 88.4 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

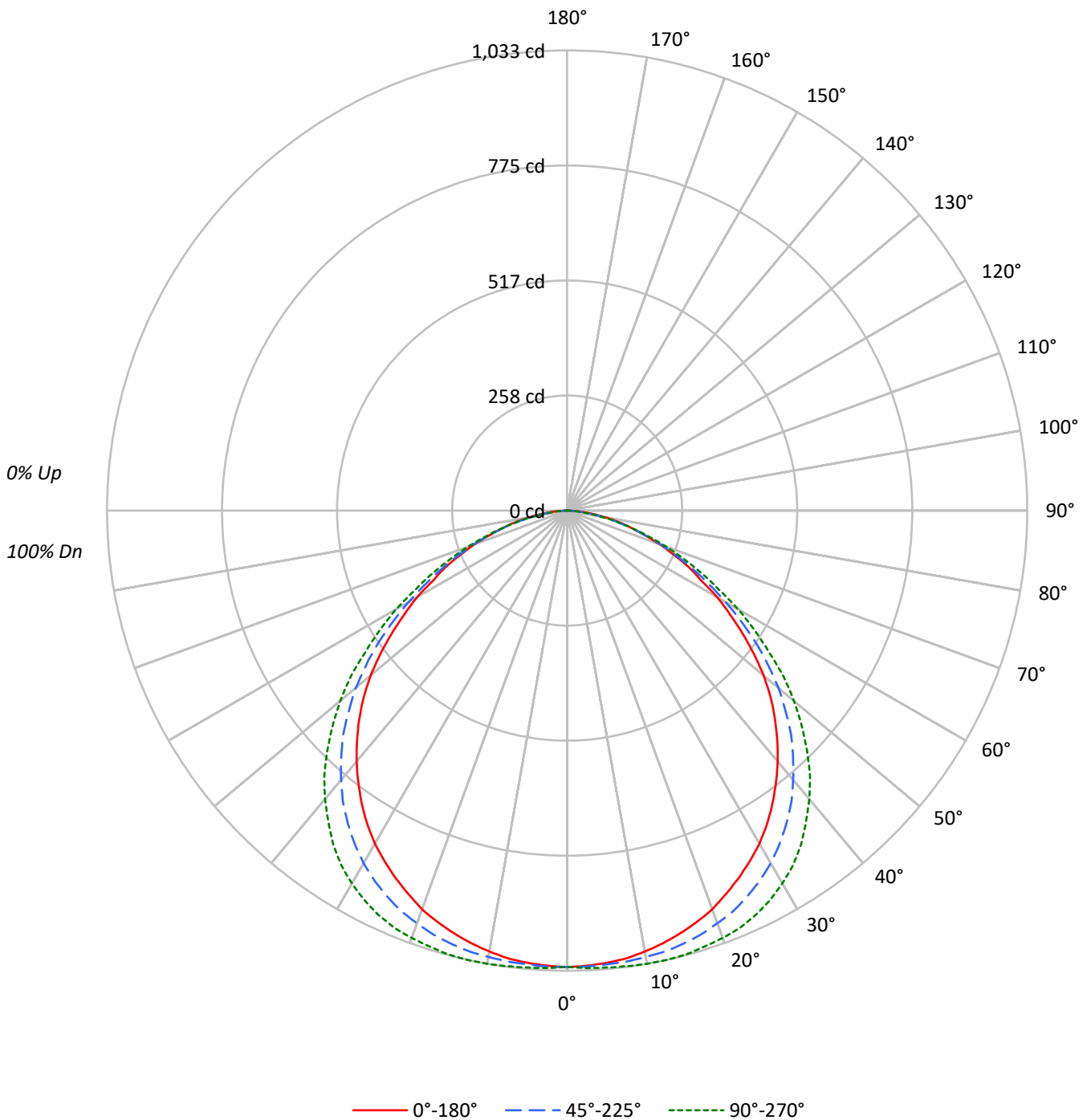
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2757	2757	2757
5°	2753	2763	2781
10°	2747	2780	2823
15°	2737	2805	2874
20°	2728	2823	2924
25°	2703	2839	2974
30°	2682	2840	3003
35°	2639	2818	3008
40°	2582	2773	2970
45°	2510	2704	2897
50°	2409	2592	2783
55°	2255	2428	2593
60°	2096	2209	2389
65°	1921	1988	2122
70°	1739	1766	1850
75°	1533	1495	1550
80°	1333	1223	1168
85°	1084	812	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.4
10°-20°	284.4	9.9
20°-30°	440.7	15.4
30°-40°	536.3	18.7
40°-50°	546.3	19.0
50°-60°	460.7	16.1
60°-70°	311.6	10.9
70°-80°	155.7	5.4
80°-90°	34.6	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°	822.7	28.7
0°-40°	1359.1	47.4
0°-60°	2366.0	82.5
0°-90°	2868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1019	1021	1023	1028	1030	97
15°	982	989	1007	1024	1032	277
25°	910	924	956	988	1002	420
35°	803	821	858	898	916	502
45°	660	672	710	747	761	508
55°	481	488	518	542	553	430
65°	302	296	312	326	333	298
75°	147	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°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1022.7	1022.7	1024.5	1026.2	1028.0
5°	1019.2	1021.0	1022.7	1028.0	1029.7
7.5°	1013.9	1015.7	1021.0	1028.0	1031.5
10°	1005.2	1008.7	1017.4	1028.0	1033.2
12.5°	994.6	999.9	1013.9	1026.2	1033.2
15°	982.4	989.4	1006.9	1024.5	1031.5
17.5°	968.3	977.1	998.1	1017.4	1026.2
20°	952.5	963.1	985.9	1010.4	1021.0
22.5°	931.5	945.5	973.6	1001.7	1013.9
25°	910.4	924.5	956.0	987.6	1001.7
27.5°	887.6	903.4	936.7	971.8	985.9
30°	863.1	877.1	913.9	950.8	966.6
32.5°	835.0	849.0	887.6	926.2	943.8
35°	803.4	821.0	857.8	898.2	915.7
37.5°	770.1	785.9	826.2	864.8	880.6
40°	735.0	750.8	789.4	829.7	845.5
42.5°	698.2	714.0	750.8	789.4	806.9
45°	659.6	671.9	710.5	747.3	761.3
47.5°	619.2	628.0	664.8	699.9	714.0
50°	575.4	584.2	619.2	650.8	664.8
52.5°	528.0	535.0	568.4	596.4	612.2
55°	480.7	487.7	517.5	542.1	552.6
57.5°	433.3	436.8	463.1	487.7	498.2
60°	389.4	389.4	410.5	429.8	443.8
62.5°	338.6	343.8	359.6	378.9	384.2
65°	301.7	296.5	312.2	326.3	333.3
67.5°	259.6	256.1	266.6	278.9	282.4
70°	221.0	215.8	224.5	231.6	235.1
72.5°	180.7	178.9	182.4	187.7	189.5
75°	147.4	142.1	143.8	145.6	149.1
77.5°	117.5	108.8	110.5	108.8	110.5
80°	86.0	78.9	78.9	77.2	75.4
82.5°	57.9	54.4	50.9	47.4	45.6
85°	35.1	29.8	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)