

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: P296420

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

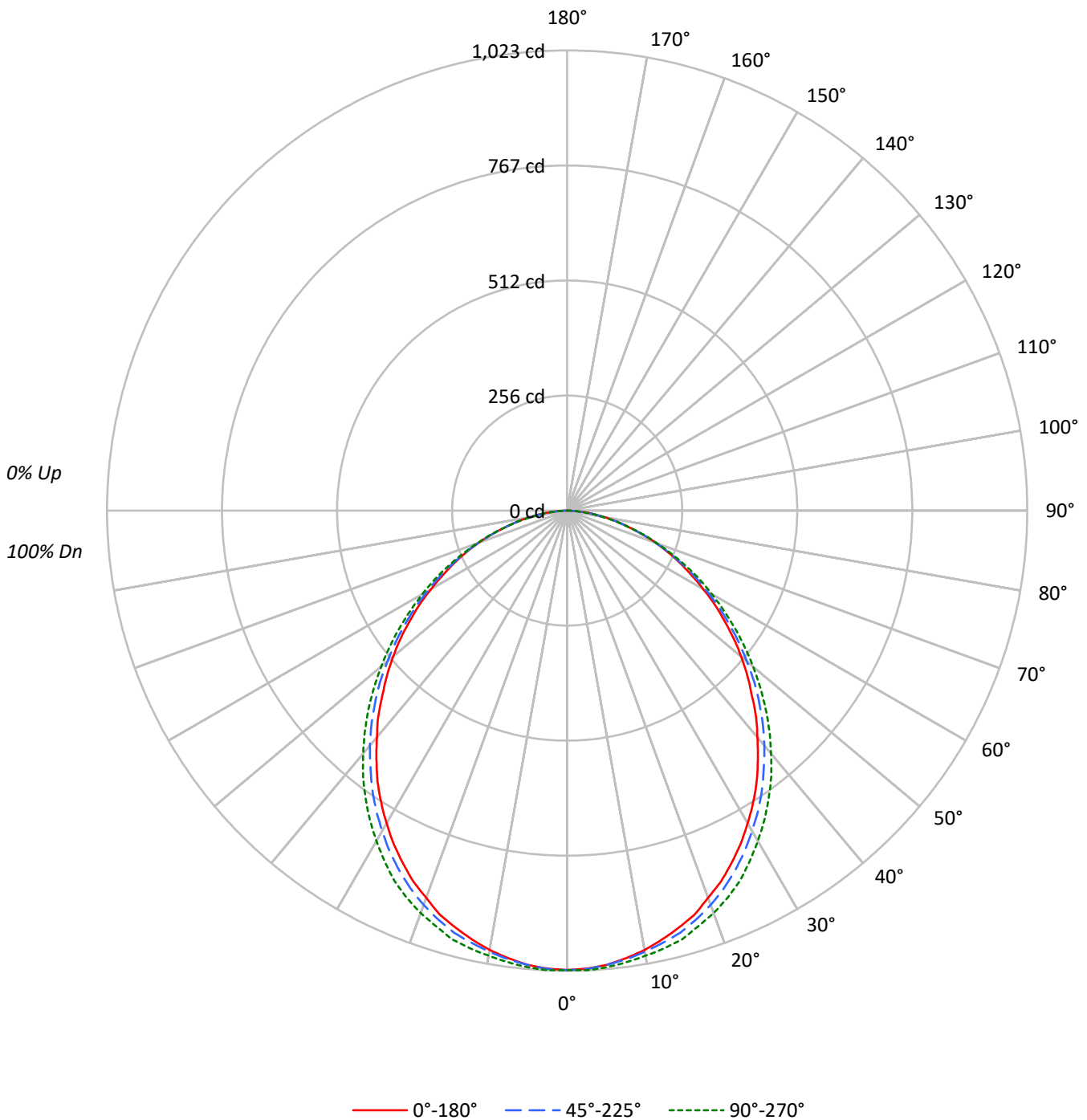
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2749	2749	2749
5°	2739	2739	2752
10°	2710	2721	2746
15°	2674	2706	2749
20°	2623	2671	2727
25°	2567	2621	2697
30°	2495	2555	2635
35°	2414	2482	2566
40°	2311	2397	2478
45°	2210	2298	2376
50°	2114	2184	2259
55°	2001	2061	2134
60°	1881	1929	1998
65°	1767	1800	1857
70°	1648	1648	1678
75°	1469	1469	1469
80°	1294	1254	1254
85°	1031	991	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.7
10°-20°	273.9	10.6
20°-30°	406.8	15.8
30°-40°	472.2	18.3
40°-50°	464.9	18.0
50°-60°	393.5	15.3
60°-70°	280.6	10.9
70°-80°	150.8	5.9
80°-90°	38.0	1.5
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°	777.1	30.2
0°-40°	1249.2	48.5
0°-60°	2107.6	81.8
0°-90°	2577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1014	1014	1014	1018	1019	96
15°	960	962	971	980	987	271
25°	865	867	883	899	908	398
35°	735	736	756	774	781	459
45°	581	585	604	618	624	449
55°	427	428	439	451	455	382
65°	278	278	283	288	292	275
75°	141	140	141	141	141	152
85°	33	32	32	30	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1018.9	1018.9	1020.2	1021.5	1022.8
5°	1013.8	1013.8	1013.8	1017.6	1018.9
7.5°	1003.5	1004.8	1006.0	1009.9	1012.5
10°	991.9	993.2	995.8	1002.2	1004.8
12.5°	976.5	980.4	984.2	993.2	997.1
15°	959.8	962.4	971.4	980.4	986.8
17.5°	941.8	943.1	953.4	966.2	968.8
20°	916.1	920.0	932.8	945.7	952.1
22.5°	893.0	895.5	909.7	926.4	931.5
25°	864.7	867.3	882.7	899.4	908.4
27.5°	835.2	837.7	854.4	872.4	878.8
30°	803.0	805.6	822.3	841.6	848.0
32.5°	769.6	772.2	790.2	806.9	815.9
35°	734.9	736.2	755.5	773.5	781.2
37.5°	696.4	700.3	718.2	736.2	745.2
40°	657.9	661.7	682.3	699.0	705.4
42.5°	621.9	627.0	643.7	659.1	665.6
45°	580.8	584.6	603.9	618.0	624.4
47.5°	543.5	547.4	564.1	578.2	582.0
50°	505.0	507.5	521.7	534.5	539.6
52.5°	466.4	467.7	480.5	493.4	497.2
55°	426.6	427.9	439.4	451.0	454.8
57.5°	389.3	389.3	399.6	408.6	412.4
60°	349.5	349.5	358.5	367.5	371.3
62.5°	312.2	312.2	321.2	327.6	332.8
65°	277.5	277.5	282.7	287.8	291.7
67.5°	244.1	240.3	245.4	251.8	250.5
70°	209.4	205.6	209.4	212.0	213.3
72.5°	174.7	172.2	174.7	176.0	178.6
75°	141.3	140.1	141.3	141.3	141.3
77.5°	113.1	109.2	111.8	110.5	109.2
80°	83.5	82.2	80.9	79.7	80.9
82.5°	57.8	56.5	56.5	54.0	54.0
85°	33.4	32.1	32.1	29.6	29.6
87.5°	12.8	12.8	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)