

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: P296415

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296415
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-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

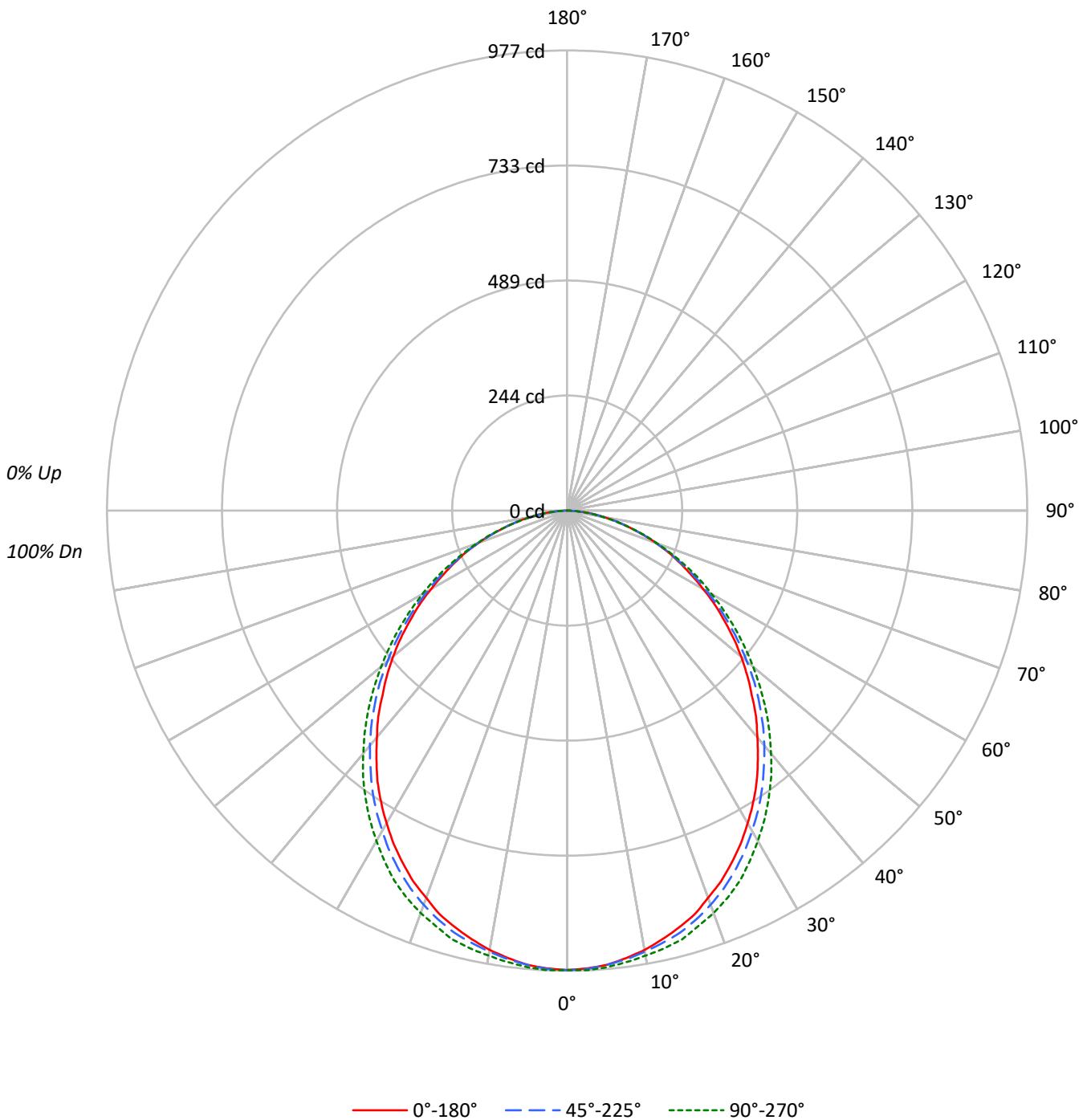
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2625	2625	2625
5°	2615	2615	2628
10°	2588	2598	2622
15°	2554	2584	2625
20°	2505	2551	2604
25°	2452	2503	2576
30°	2383	2440	2516
35°	2306	2370	2451
40°	2207	2289	2366
45°	2111	2195	2269
50°	2019	2086	2158
55°	1911	1969	2038
60°	1796	1842	1908
65°	1687	1719	1773
70°	1574	1574	1603
75°	1404	1404	1404
80°	1237	1198	1198
85°	985	948	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.7
10°-20°	261.5	10.6
20°-30°	388.5	15.8
30°-40°	450.9	18.3
40°-50°	444.0	18.0
50°-60°	375.7	15.3
60°-70°	268.0	10.9
70°-80°	144.0	5.9
80°-90°	36.3	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°	742.1	30.2
0°-40°	1193.0	48.5
0°-60°	2012.7	81.8
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	968	968	968	972	973	92
15°	917	919	928	936	942	258
25°	826	828	843	859	868	380
35°	702	703	722	739	746	438
45°	555	558	577	590	596	429
55°	407	409	420	431	434	365
65°	265	265	270	275	278	263
75°	135	134	135	135	135	145
85°	32	31	31	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.5	975.5	975.5	975.5	975.5
2.5°	973.0	973.0	974.3	975.5	976.7
5°	968.1	968.1	968.1	971.8	973.0
7.5°	958.3	959.5	960.8	964.4	966.9
10°	947.3	948.5	950.9	957.1	959.5
12.5°	932.5	936.2	939.9	948.5	952.2
15°	916.6	919.0	927.6	936.2	942.4
17.5°	899.4	900.6	910.5	922.7	925.2
20°	874.9	878.6	890.8	903.1	909.2
22.5°	852.8	855.2	868.7	884.7	889.6
25°	825.8	828.2	843.0	858.9	867.5
27.5°	797.6	800.0	816.0	833.2	839.3
30°	766.9	769.3	785.3	803.7	809.8
32.5°	735.0	737.4	754.6	770.6	779.2
35°	701.9	703.1	721.5	738.7	746.0
37.5°	665.0	668.7	685.9	703.1	711.7
40°	628.2	631.9	651.6	667.5	673.6
42.5°	593.9	598.8	614.7	629.5	635.6
45°	554.6	558.3	576.7	590.2	596.3
47.5°	519.0	522.7	538.7	552.2	555.8
50°	482.2	484.7	498.2	510.4	515.4
52.5°	445.4	446.6	458.9	471.2	474.9
55°	407.4	408.6	419.6	430.7	434.4
57.5°	371.8	371.8	381.6	390.2	393.9
60°	333.8	333.8	342.3	350.9	354.6
62.5°	298.2	298.2	306.8	312.9	317.8
65°	265.0	265.0	269.9	274.9	278.5
67.5°	233.1	229.5	234.4	240.5	239.3
70°	200.0	196.3	200.0	202.5	203.7
72.5°	166.9	164.4	166.9	168.1	170.6
75°	135.0	133.7	135.0	135.0	135.0
77.5°	108.0	104.3	106.8	105.5	104.3
80°	79.8	78.5	77.3	76.1	77.3
82.5°	55.2	54.0	54.0	51.5	51.5
85°	31.9	30.7	30.7	28.2	28.2
87.5°	12.3	12.3	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)