

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: P296548

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296548
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-LD5-25-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2099.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

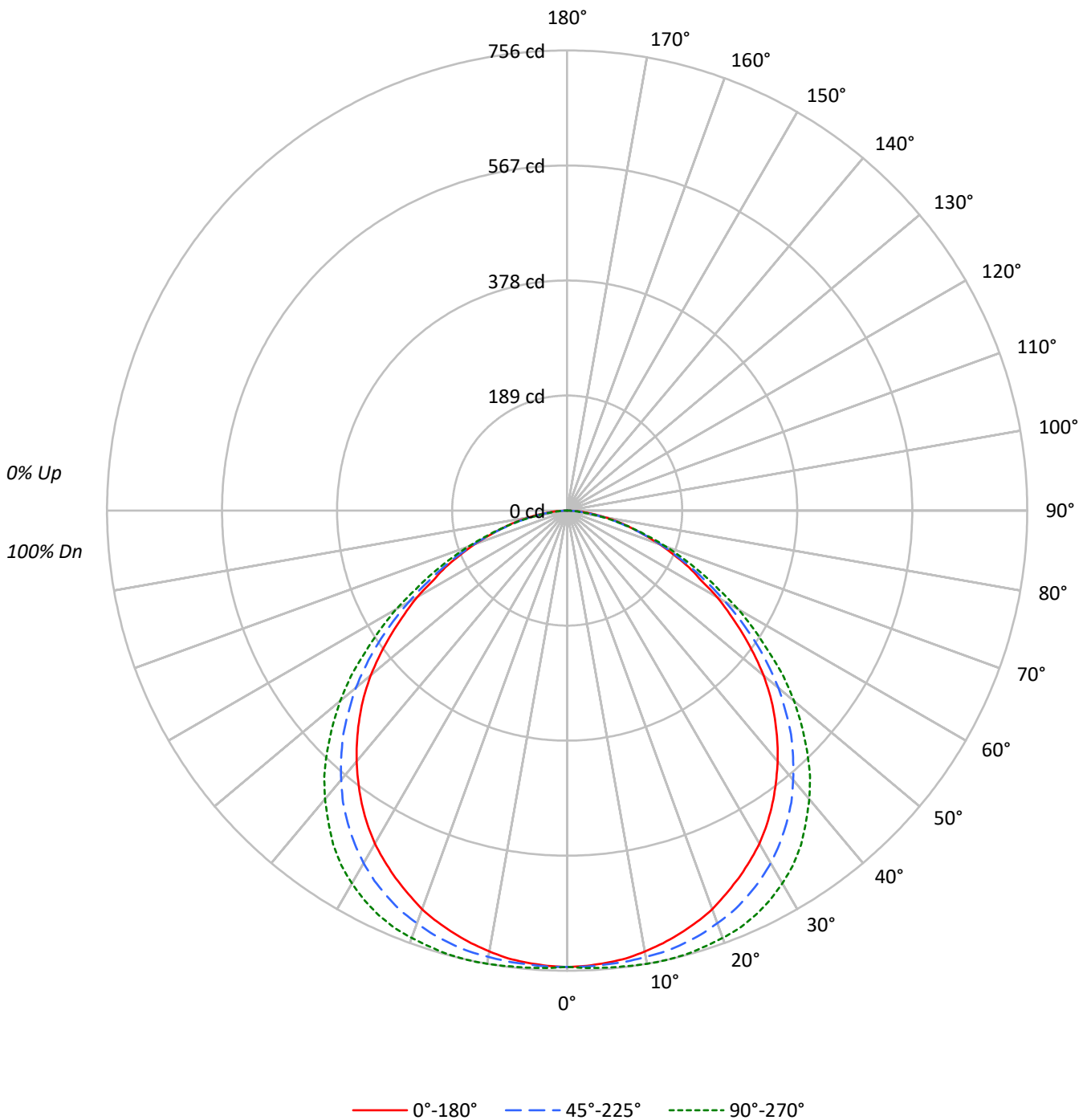
Input Watts (W): 19.344
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2018	2018	2018
5°	2015	2022	2036
10°	2010	2035	2066
15°	2003	2053	2103
20°	1996	2066	2140
25°	1978	2078	2177
30°	1963	2078	2198
35°	1932	2062	2202
40°	1890	2029	2174
45°	1837	1979	2120
50°	1763	1897	2037
55°	1650	1777	1897
60°	1534	1617	1748
65°	1406	1455	1553
70°	1273	1293	1353
75°	1121	1095	1134
80°	975	896	855
85°	794	596	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.4
10°-20°	208.2	9.9
20°-30°	322.5	15.4
30°-40°	392.5	18.7
40°-50°	399.8	19.0
50°-60°	337.1	16.1
60°-70°	228.1	10.9
70°-80°	114.0	5.4
80°-90°	25.4	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°	602.1	28.7
0°-40°	994.7	47.4
0°-60°	1731.6	82.5
0°-90°	2099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	746	747	748	752	754	71
15°	719	724	737	750	755	203
25°	666	677	700	723	733	307
35°	588	601	628	657	670	368
45°	483	492	520	547	557	372
55°	352	357	379	397	404	315
65°	221	217	228	239	244	218
75°	108	104	105	107	109	116
85°	26	22	19	17	17	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.8	749.8	749.8	749.8	749.8
2.5°	748.5	748.5	749.8	751.1	752.3
5°	745.9	747.2	748.5	752.3	753.6
7.5°	742.1	743.4	747.2	752.3	754.9
10°	735.6	738.2	744.6	752.3	756.2
12.5°	727.9	731.8	742.1	751.1	756.2
15°	719.0	724.1	736.9	749.8	754.9
17.5°	708.7	715.1	730.5	744.6	751.1
20°	697.1	704.8	721.5	739.5	747.2
22.5°	681.7	692.0	712.5	733.1	742.1
25°	666.3	676.6	699.7	722.8	733.1
27.5°	649.6	661.2	685.6	711.3	721.5
30°	631.7	641.9	668.9	695.8	707.4
32.5°	611.1	621.4	649.6	677.9	690.7
35°	588.0	600.8	627.8	657.3	670.2
37.5°	563.6	575.2	604.7	632.9	644.5
40°	537.9	549.5	577.7	607.3	618.8
42.5°	511.0	522.5	549.5	577.7	590.6
45°	482.7	491.7	520.0	546.9	557.2
47.5°	453.2	459.6	486.6	512.3	522.5
50°	421.1	427.5	453.2	476.3	486.6
52.5°	386.4	391.6	416.0	436.5	448.1
55°	351.8	356.9	378.7	396.7	404.4
57.5°	317.1	319.7	338.9	356.9	364.6
60°	285.0	285.0	300.4	314.5	324.8
62.5°	247.8	251.6	263.2	277.3	281.2
65°	220.8	217.0	228.5	238.8	243.9
67.5°	190.0	187.4	195.1	204.1	206.7
70°	161.8	157.9	164.3	169.5	172.0
72.5°	132.2	131.0	133.5	137.4	138.7
75°	107.8	104.0	105.3	106.6	109.1
77.5°	86.0	79.6	80.9	79.6	80.9
80°	62.9	57.8	57.8	56.5	55.2
82.5°	42.4	39.8	37.2	34.7	33.4
85°	25.7	21.8	19.3	16.7	16.7
87.5°	10.3	7.7	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)