

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: P296584

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296584
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-L82765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2031.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

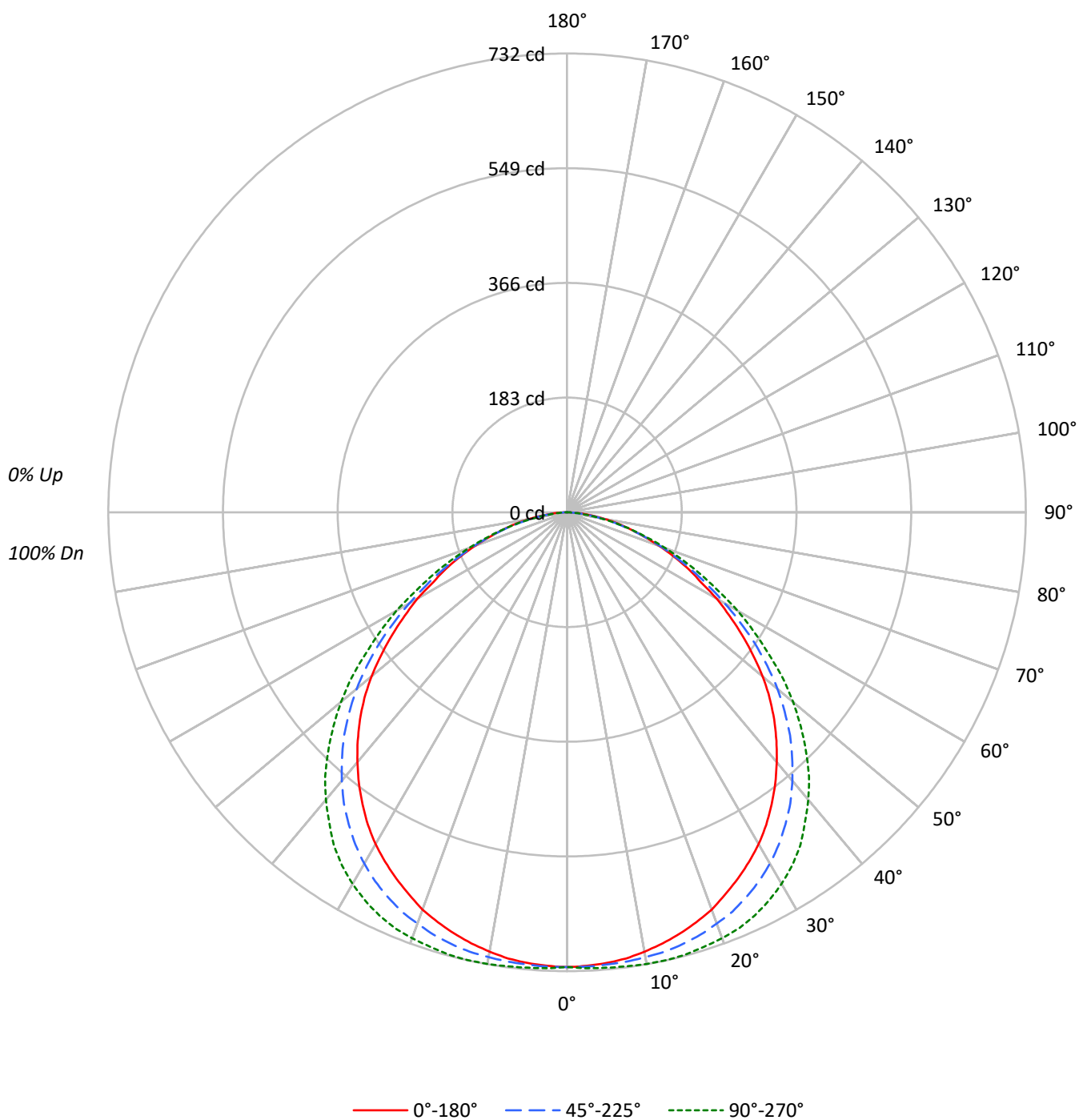
Input Watts (W): 19.251
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1952	1952	1952
5°	1950	1956	1970
10°	1945	1969	1999
15°	1938	1987	2035
20°	1932	1999	2070
25°	1914	2010	2106
30°	1899	2011	2127
35°	1869	1996	2130
40°	1828	1964	2103
45°	1778	1915	2052
50°	1706	1836	1971
55°	1597	1719	1836
60°	1484	1565	1692
65°	1361	1408	1503
70°	1231	1251	1310
75°	1084	1059	1098
80°	944	866	828
85°	766	574	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	3.4
10°-20°	201.4	9.9
20°-30°	312.1	15.4
30°-40°	379.8	18.7
40°-50°	386.8	19.0
50°-60°	326.2	16.1
60°-70°	220.7	10.9
70°-80°	110.3	5.4
80°-90°	24.5	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°	582.6	28.7
0°-40°	962.4	47.4
0°-60°	1675.5	82.5
0°-90°	2031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	722	723	724	728	729	69
15°	696	701	713	726	730	196
25°	645	655	677	699	709	297
35°	569	581	608	636	648	356
45°	467	476	503	529	539	360
55°	340	345	366	384	391	305
65°	214	210	221	231	236	211
75°	104	101	102	103	106	112
85°	25	21	19	16	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.5	725.5	725.5	725.5	725.5
2.5°	724.2	724.2	725.5	726.7	728.0
5°	721.8	723.0	724.2	728.0	729.2
7.5°	718.0	719.3	723.0	728.0	730.4
10°	711.8	714.3	720.5	728.0	731.7
12.5°	704.4	708.1	718.0	726.7	731.7
15°	695.7	700.6	713.1	725.5	730.4
17.5°	685.7	691.9	706.8	720.5	726.7
20°	674.5	682.0	698.2	715.5	723.0
22.5°	659.6	669.6	689.5	709.3	718.0
25°	644.7	654.7	677.0	699.4	709.3
27.5°	628.6	639.8	663.4	688.2	698.2
30°	611.2	621.1	647.2	673.3	684.5
32.5°	591.3	601.3	628.6	655.9	668.3
35°	569.0	581.4	607.5	636.0	648.5
37.5°	545.4	556.5	585.1	612.4	623.6
40°	520.5	531.7	559.0	587.6	598.8
42.5°	494.4	505.6	531.7	559.0	571.4
45°	467.1	475.8	503.1	529.2	539.1
47.5°	438.5	444.7	470.8	495.7	505.6
50°	407.5	413.7	438.5	460.9	470.8
52.5°	373.9	378.9	402.5	422.4	433.5
55°	340.4	345.3	366.5	383.9	391.3
57.5°	306.8	309.3	328.0	345.3	352.8
60°	275.8	275.8	290.7	304.4	314.3
62.5°	239.8	243.5	254.7	268.3	272.1
65°	213.7	209.9	221.1	231.1	236.0
67.5°	183.9	181.4	188.8	197.5	200.0
70°	156.5	152.8	159.0	164.0	166.5
72.5°	128.0	126.7	129.2	132.9	134.2
75°	104.3	100.6	101.9	103.1	105.6
77.5°	83.2	77.0	78.3	77.0	78.3
80°	60.9	55.9	55.9	54.7	53.4
82.5°	41.0	38.5	36.0	33.5	32.3
85°	24.8	21.1	18.6	16.1	16.1
87.5°	9.9	7.5	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)