

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: P296583

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296583
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-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: 1996.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

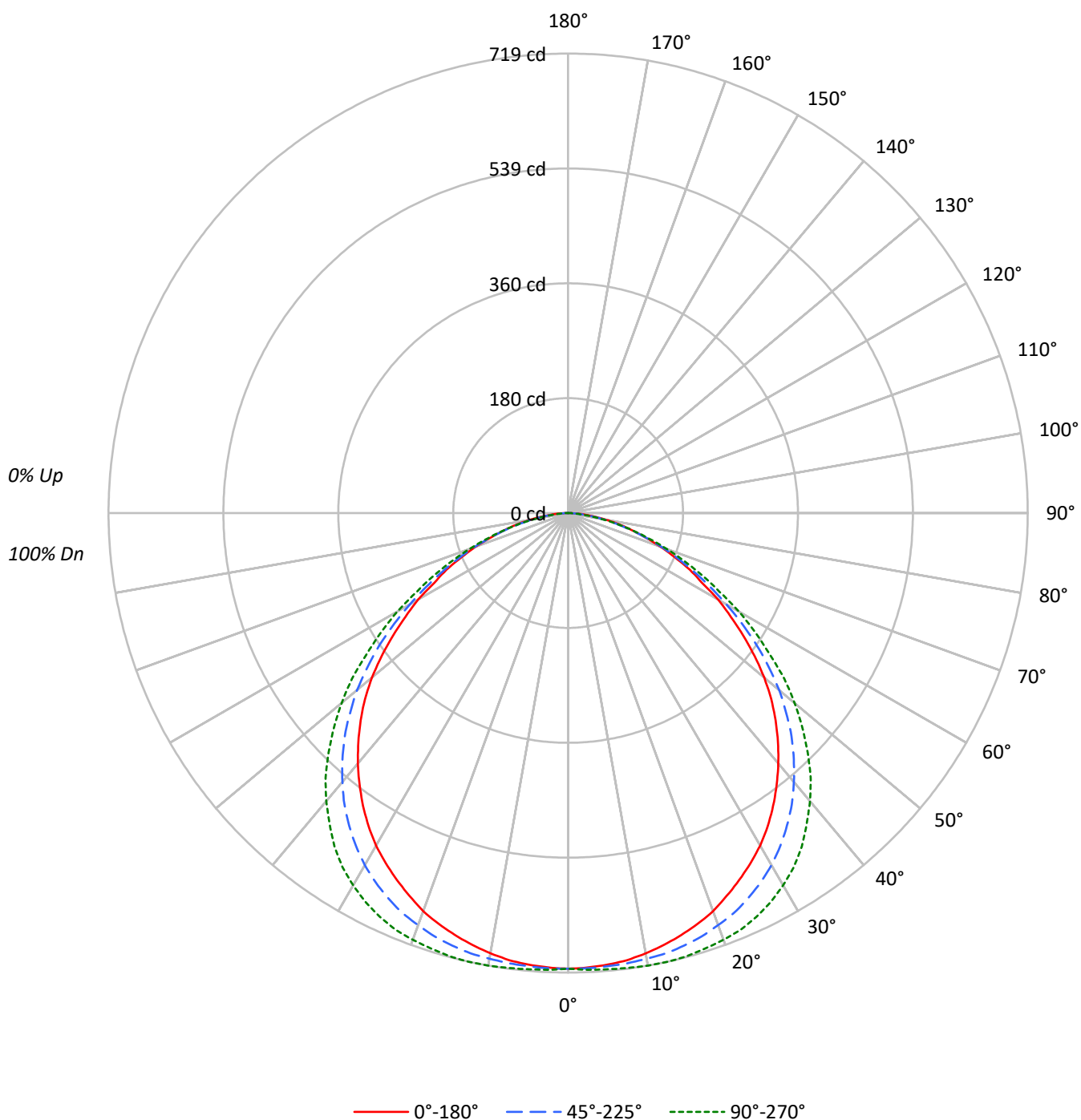
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296583

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P296583

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

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°	1919	1919	1919
5°	1916	1923	1936
10°	1911	1935	1965
15°	1905	1952	2000
20°	1898	1965	2035
25°	1881	1976	2070
30°	1867	1977	2090
35°	1837	1961	2094
40°	1797	1930	2067
45°	1747	1881	2017
50°	1676	1804	1937
55°	1569	1690	1804
60°	1459	1538	1662
65°	1337	1384	1477
70°	1210	1230	1287
75°	1067	1041	1079
80°	927	851	814
85°	753	565	491



TEST NUMBER: P296583

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.4
10°-20°	198.0	9.9
20°-30°	306.7	15.4
30°-40°	373.3	18.7
40°-50°	380.2	19.0
50°-60°	320.6	16.1
60°-70°	216.9	10.9
70°-80°	108.4	5.4
80°-90°	24.1	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°	572.6	28.7
0°-40°	945.9	47.4
0°-60°	1646.6	82.5
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	709	710	712	715	717	67
15°	684	689	701	713	718	193
25°	634	643	665	687	697	292
35°	559	571	597	625	637	350
45°	459	468	494	520	530	353
55°	334	339	360	377	385	299
65°	210	206	217	227	232	207
75°	103	99	100	101	104	110
85°	24	21	18	16	16	28
90°	0	0	0	0	0	



TEST NUMBER: P296583

CATALOG NUMBER: 22RLN-LD5-25-RDP-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.0	713.0	713.0	713.0	713.0
2.5°	711.8	711.8	713.0	714.2	715.4
5°	709.3	710.5	711.8	715.4	716.6
7.5°	705.7	706.9	710.5	715.4	717.9
10°	699.5	702.0	708.1	715.4	719.1
12.5°	692.2	695.9	705.7	714.2	719.1
15°	683.7	688.6	700.8	713.0	717.9
17.5°	673.9	680.0	694.7	708.1	714.2
20°	662.9	670.2	686.1	703.2	710.5
22.5°	648.3	658.0	677.6	697.1	705.7
25°	633.6	643.4	665.4	687.3	697.1
27.5°	617.8	628.7	651.9	676.4	686.1
30°	600.7	610.4	636.1	661.7	672.7
32.5°	581.1	590.9	617.8	644.6	656.8
35°	559.2	571.4	597.0	625.1	637.3
37.5°	536.0	546.9	575.0	601.9	612.9
40°	511.5	522.5	549.4	577.5	588.5
42.5°	485.9	496.9	522.5	549.4	561.6
45°	459.0	467.6	494.4	520.1	529.9
47.5°	431.0	437.1	462.7	487.1	496.9
50°	400.4	406.5	431.0	452.9	462.7
52.5°	367.5	372.4	395.6	415.1	426.1
55°	334.5	339.4	360.2	377.2	384.6
57.5°	301.6	304.0	322.3	339.4	346.7
60°	271.0	271.0	285.7	299.1	308.9
62.5°	235.6	239.3	250.3	263.7	267.4
65°	210.0	206.3	217.3	227.1	232.0
67.5°	180.7	178.2	185.6	194.1	196.6
70°	153.8	150.2	156.3	161.2	163.6
72.5°	125.7	124.5	127.0	130.6	131.9
75°	102.6	98.9	100.1	101.3	103.8
77.5°	81.8	75.7	76.9	75.7	76.9
80°	59.8	54.9	54.9	53.7	52.5
82.5°	40.3	37.8	35.4	33.0	31.7
85°	24.4	20.8	18.3	15.9	15.9
87.5°	9.8	7.3	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)