

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: P296549

Luminaire Tested: **22RLN-LD5-25-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296549
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-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: 2119.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

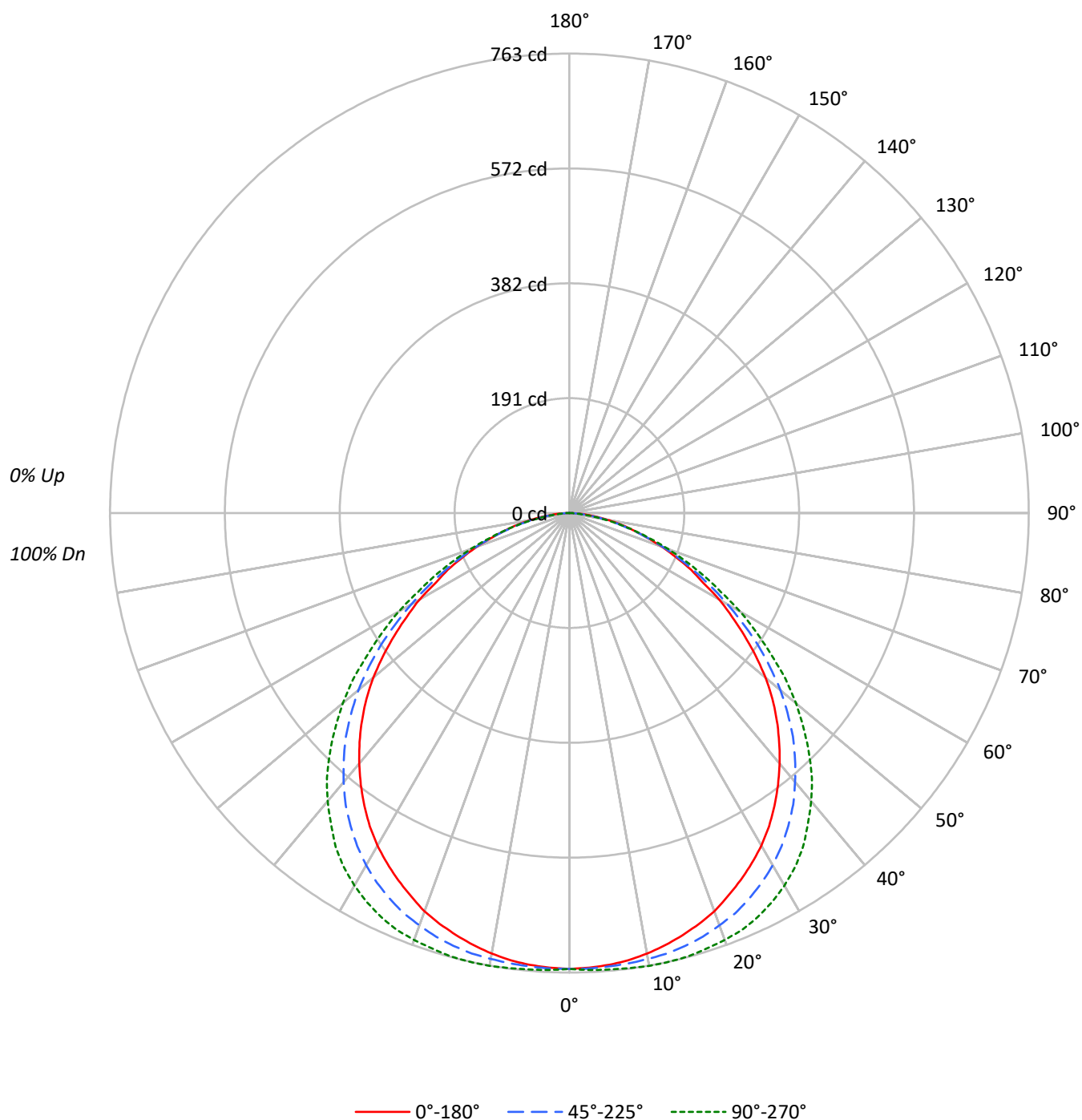
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2037	2037	2037
5°	2034	2041	2055
10°	2029	2054	2086
15°	2022	2073	2123
20°	2015	2086	2160
25°	1997	2097	2197
30°	1982	2098	2219
35°	1950	2082	2223
40°	1908	2049	2194
45°	1854	1998	2141
50°	1780	1915	2056
55°	1666	1794	1916
60°	1548	1632	1765
65°	1419	1469	1568
70°	1285	1305	1367
75°	1132	1105	1146
80°	984	903	863
85°	800	599	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.4
10°-20°	210.2	9.9
20°-30°	325.6	15.4
30°-40°	396.3	18.7
40°-50°	403.6	19.0
50°-60°	340.4	16.1
60°-70°	230.2	10.9
70°-80°	115.1	5.4
80°-90°	25.6	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°	607.9	28.7
0°-40°	1004.1	47.4
0°-60°	1748.1	82.5
0°-90°	2119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	757	757	757	757	757	
5°	753	754	756	760	761	72
15°	726	731	744	757	762	205
25°	673	683	706	730	740	310
35°	594	607	634	664	677	371
45°	487	496	525	552	562	375
55°	355	360	382	400	408	318
65°	223	219	231	241	246	220
75°	109	105	106	108	110	117
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°	756.9	756.9	756.9	756.9	756.9
2.5°	755.6	755.6	756.9	758.2	759.5
5°	753.0	754.3	755.6	759.5	760.8
7.5°	749.1	750.4	754.3	759.5	762.1
10°	742.7	745.2	751.7	759.5	763.4
12.5°	734.9	738.8	749.1	758.2	763.4
15°	725.8	731.0	744.0	756.9	762.1
17.5°	715.4	721.9	737.5	751.7	758.2
20°	703.8	711.6	728.4	746.5	754.3
22.5°	688.2	698.6	719.3	740.1	749.1
25°	672.7	683.0	706.4	729.7	740.1
27.5°	655.8	667.5	692.1	718.0	728.4
30°	637.7	648.0	675.3	702.5	714.1
32.5°	616.9	627.3	655.8	684.3	697.3
35°	593.6	606.6	633.8	663.6	676.6
37.5°	569.0	580.6	610.5	639.0	650.6
40°	543.1	554.7	583.2	613.0	624.7
42.5°	515.8	527.5	554.7	583.2	596.2
45°	487.3	496.4	524.9	552.1	562.5
47.5°	457.5	464.0	491.2	517.1	527.5
50°	425.1	431.6	457.5	480.8	491.2
52.5°	390.1	395.3	419.9	440.7	452.3
55°	355.1	360.3	382.3	400.5	408.3
57.5°	320.1	322.7	342.2	360.3	368.1
60°	287.7	287.7	303.3	317.5	327.9
62.5°	250.1	254.0	265.7	280.0	283.8
65°	222.9	219.0	230.7	241.1	246.3
67.5°	191.8	189.2	197.0	206.1	208.7
70°	163.3	159.4	165.9	171.1	173.7
72.5°	133.5	132.2	134.8	138.7	140.0
75°	108.9	105.0	106.3	107.6	110.2
77.5°	86.8	80.4	81.7	80.4	81.7
80°	63.5	58.3	58.3	57.0	55.7
82.5°	42.8	40.2	37.6	35.0	33.7
85°	25.9	22.0	19.4	16.8	16.8
87.5°	10.4	7.8	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)