

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: P295707

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

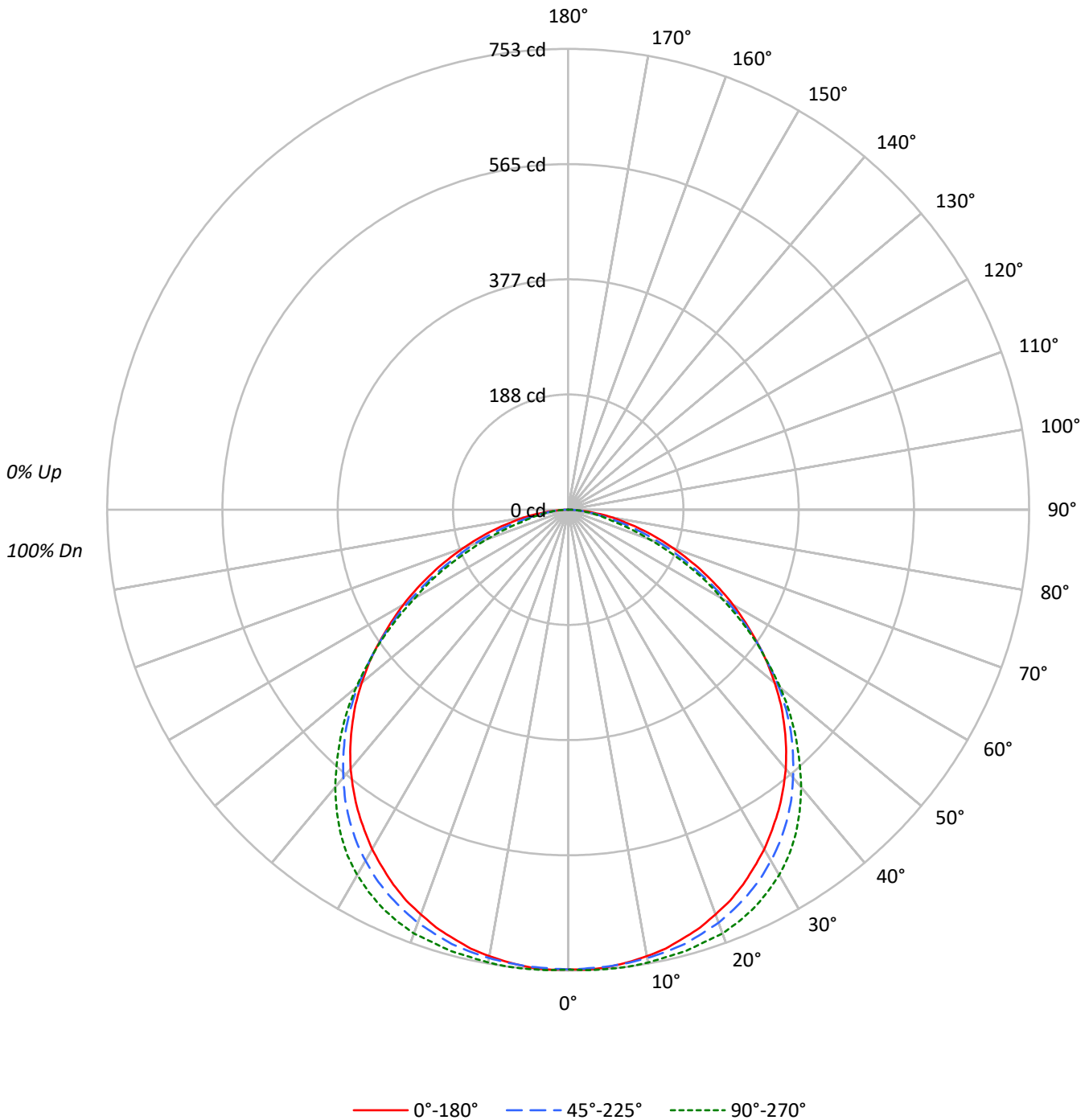
Input Watts (W): 23.808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2021	2021	2021
5°	2026	2024	2035
10°	2024	2033	2053
15°	2021	2047	2078
20°	2015	2056	2110
25°	2006	2061	2132
30°	1991	2058	2142
35°	1969	2043	2128
40°	1942	2007	2080
45°	1899	1958	2001
50°	1843	1877	1895
55°	1765	1760	1750
60°	1674	1618	1557
65°	1559	1447	1368
70°	1423	1268	1105
75°	1279	1053	828
80°	1137	769	721
85°	892	639	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	207.8	10.0
20°-30°	320.7	15.4
30°-40°	389.0	18.7
40°-50°	394.9	19.0
50°-60°	334.1	16.1
60°-70°	226.0	10.9
70°-80°	109.3	5.3
80°-90°	26.7	1.3
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°	600.0	28.8
0°-40°	989.0	47.5
0°-60°	1718.0	82.6
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	750	750	749	752	753	71
15°	725	730	735	743	746	205
25°	676	681	694	712	718	311
35°	599	606	622	642	648	375
45°	499	500	515	525	526	385
55°	376	373	375	375	373	336
65°	245	234	227	218	215	243
75°	123	114	101	88	80	131
85°	29	23	21	21	21	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.2	751.2	751.2	751.2	751.2
2.5°	752.2	752.2	750.1	752.2	753.2
5°	750.1	750.1	749.1	752.2	753.2
7.5°	746.0	747.0	747.0	751.2	753.2
10°	740.8	742.9	743.9	750.1	751.2
12.5°	734.6	736.7	739.8	747.0	748.1
15°	725.3	729.5	734.6	742.9	746.0
17.5°	716.0	720.2	726.4	737.7	740.8
20°	703.6	708.8	718.1	731.5	736.7
22.5°	691.2	695.4	706.7	723.3	728.4
25°	675.7	680.9	694.3	711.9	718.1
27.5°	658.2	665.4	679.9	698.5	704.7
30°	640.6	646.8	662.3	683.0	689.2
32.5°	619.9	626.1	643.7	663.3	670.6
35°	599.3	605.5	622.0	641.6	647.8
37.5°	576.5	580.7	598.2	614.8	621.0
40°	552.8	555.9	571.4	587.9	592.0
42.5°	527.0	529.0	543.5	557.9	559.0
45°	499.1	500.1	514.6	524.9	525.9
47.5°	471.2	470.1	482.5	489.8	490.8
50°	440.2	440.2	448.4	452.6	452.6
52.5°	409.2	407.1	411.2	414.3	411.2
55°	376.1	373.0	375.1	375.1	373.0
57.5°	343.0	336.8	337.9	335.8	330.6
60°	311.0	303.8	300.7	293.4	289.3
62.5°	277.9	269.7	263.5	255.2	254.2
65°	244.9	234.5	227.3	218.0	214.9
67.5°	212.8	203.5	193.2	182.9	176.7
70°	180.8	170.5	161.2	147.8	140.5
72.5°	151.9	142.6	131.2	115.7	110.6
75°	123.0	113.7	101.3	87.8	79.6
77.5°	95.1	87.8	74.4	63.0	62.0
80°	73.4	65.1	49.6	46.5	46.5
82.5°	47.5	42.4	35.1	33.1	33.1
85°	28.9	22.7	20.7	20.7	20.7
87.5°	11.4	10.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)