

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: P295789

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295789
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-LD5-31-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2338.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

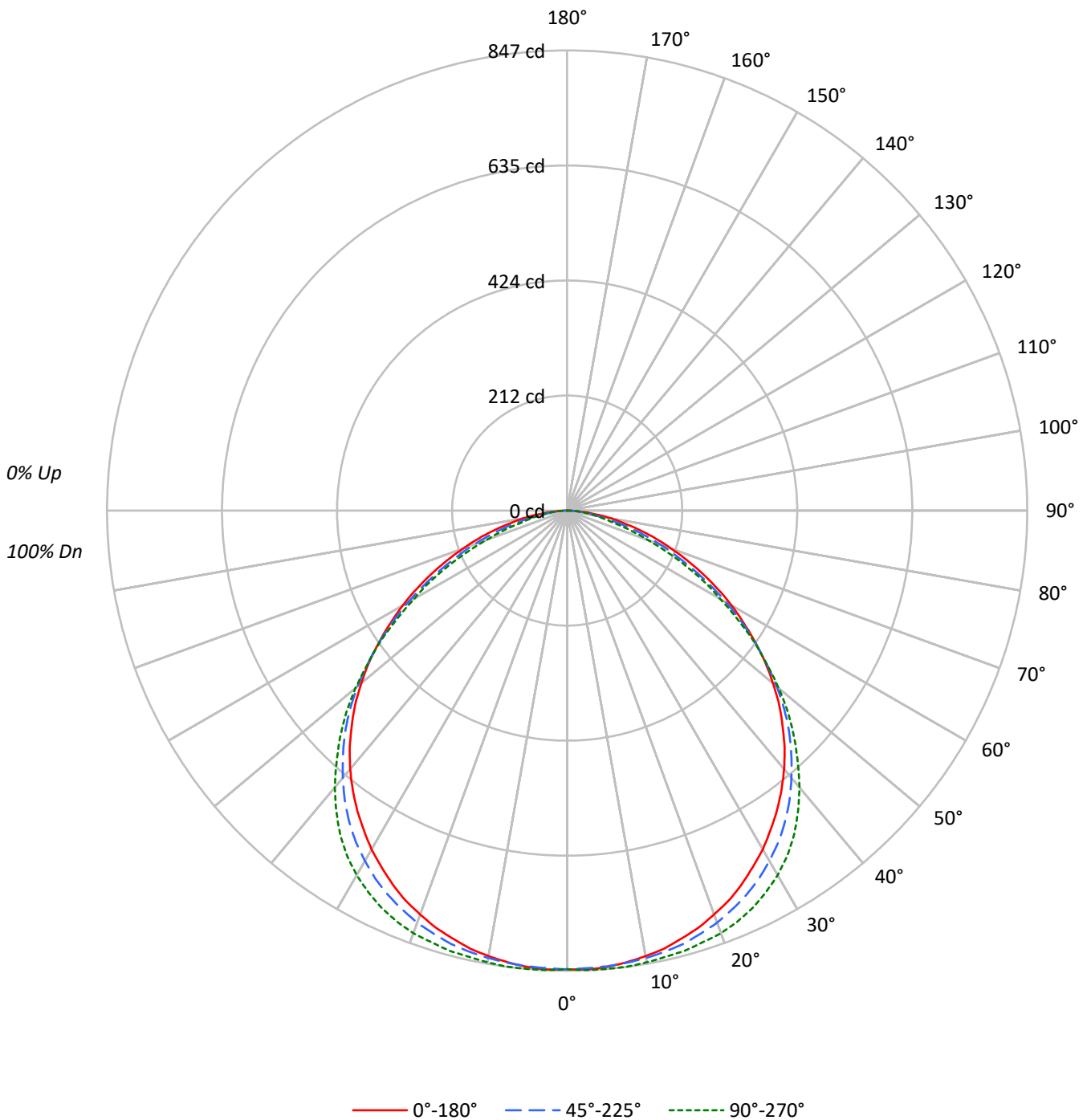
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2272	2272	2272
5°	2278	2274	2287
10°	2275	2285	2307
15°	2271	2301	2336
20°	2265	2312	2371
25°	2255	2317	2397
30°	2238	2313	2407
35°	2213	2297	2392
40°	2183	2256	2338
45°	2135	2201	2250
50°	2071	2110	2130
55°	1983	1978	1967
60°	1882	1819	1750
65°	1753	1627	1538
70°	1599	1426	1243
75°	1437	1183	930
80°	1278	863	810
85°	1003	716	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.4
10°-20°	233.6	10.0
20°-30°	360.5	15.4
30°-40°	437.2	18.7
40°-50°	443.9	19.0
50°-60°	375.5	16.1
60°-70°	254.1	10.9
70°-80°	122.8	5.3
80°-90°	30.0	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°	674.5	28.8
0°-40°	1111.7	47.5
0°-60°	1931.1	82.6
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	843	843	842	846	847	80
15°	815	820	826	835	838	230
25°	760	765	780	800	807	350
35°	674	681	699	721	728	421
45°	561	562	578	590	591	433
55°	423	419	422	422	419	378
65°	275	264	256	245	242	273
75°	138	128	114	99	89	147
85°	32	26	23	23	23	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.3	844.3	844.3	844.3	844.3
2.5°	845.5	845.5	843.2	845.5	846.7
5°	843.2	843.2	842.0	845.5	846.7
7.5°	838.5	839.7	839.7	844.3	846.7
10°	832.7	835.0	836.2	843.2	844.3
12.5°	825.8	828.1	831.6	839.7	840.9
15°	815.3	819.9	825.8	835.0	838.5
17.5°	804.8	809.5	816.5	829.2	832.7
20°	790.9	796.7	807.2	822.3	828.1
22.5°	777.0	781.6	794.4	813.0	818.8
25°	759.6	765.4	780.5	800.2	807.2
27.5°	739.8	747.9	764.2	785.1	792.1
30°	720.1	727.0	744.5	767.7	774.7
32.5°	696.8	703.8	723.6	745.6	753.7
35°	673.6	680.6	699.2	721.2	728.2
37.5°	648.1	652.7	672.5	691.0	698.0
40°	621.3	624.8	642.3	660.8	665.5
42.5°	592.3	594.6	610.9	627.2	628.3
45°	561.0	562.1	578.4	590.0	591.2
47.5°	529.6	528.4	542.4	550.5	551.7
50°	494.8	494.8	504.0	508.7	508.7
52.5°	459.9	457.6	462.2	465.7	462.2
55°	422.7	419.3	421.6	421.6	419.3
57.5°	385.6	378.6	379.8	377.5	371.6
60°	349.6	341.5	338.0	329.8	325.2
62.5°	312.4	303.1	296.2	286.9	285.7
65°	275.3	263.6	255.5	245.1	241.6
67.5°	239.2	228.8	217.2	205.6	198.6
70°	203.2	191.6	181.2	166.1	158.0
72.5°	170.7	160.3	147.5	130.1	124.3
75°	138.2	127.8	113.8	98.7	89.4
77.5°	106.8	98.7	83.6	70.8	69.7
80°	82.5	73.2	55.7	52.3	52.3
82.5°	53.4	47.6	39.5	37.2	37.2
85°	32.5	25.6	23.2	23.2	23.2
87.5°	12.8	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)