

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: P295679

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295679
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-L83050-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2267.0 lumens
Efficiency: N/A
Efficacy: 95.2 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

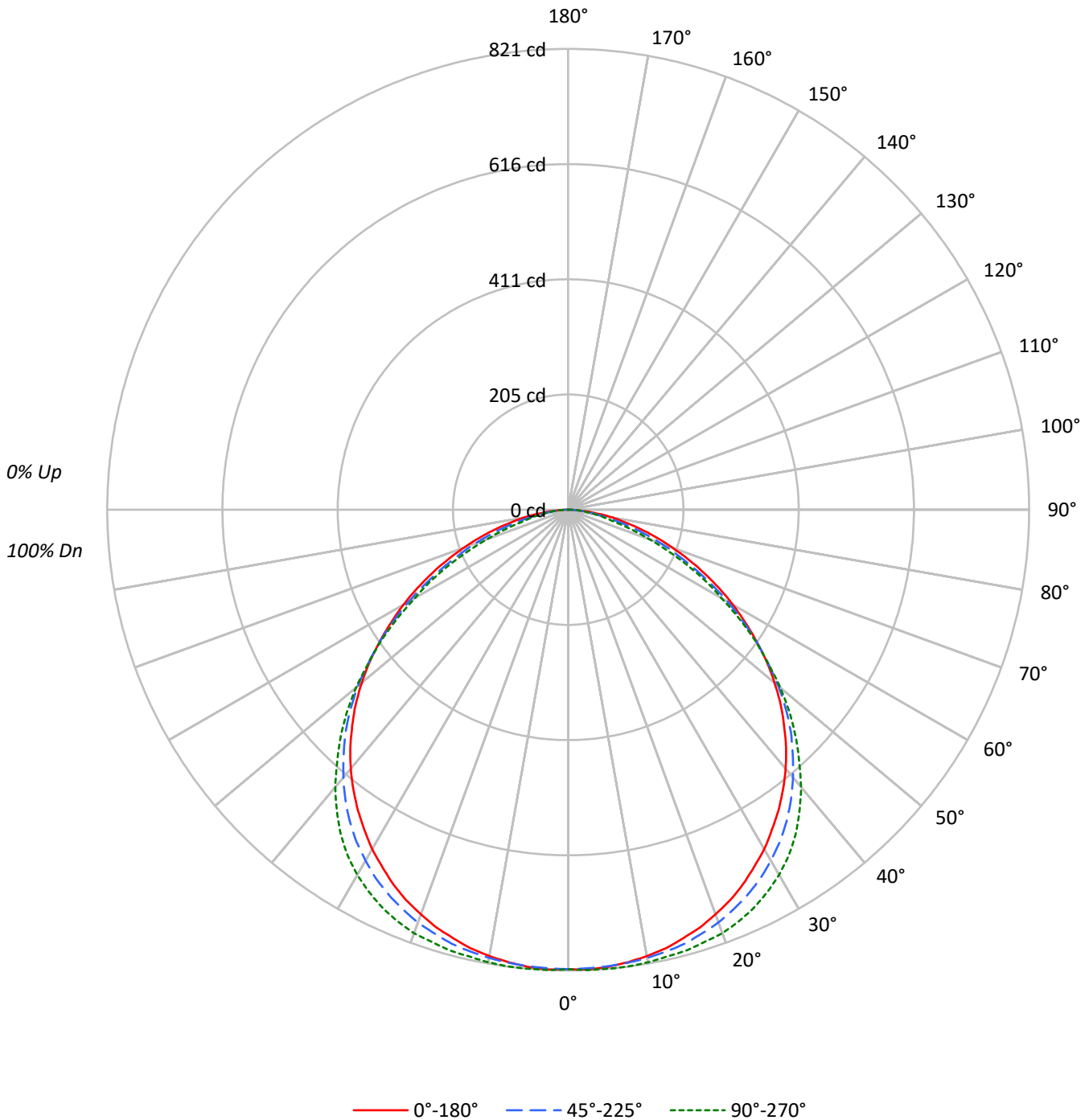
Input Watts (W): 23.808
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2203	2203	2203
5°	2209	2205	2217
10°	2206	2216	2237
15°	2202	2231	2265
20°	2196	2241	2299
25°	2187	2247	2324
30°	2169	2243	2334
35°	2146	2227	2320
40°	2116	2187	2267
45°	2070	2134	2181
50°	2008	2046	2065
55°	1923	1918	1907
60°	1824	1764	1697
65°	1699	1577	1491
70°	1551	1382	1205
75°	1393	1148	901
80°	1240	838	786
85°	973	695	695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.4
10°-20°	226.5	10.0
20°-30°	349.6	15.4
30°-40°	423.9	18.7
40°-50°	430.4	19.0
50°-60°	364.1	16.1
60°-70°	246.3	10.9
70°-80°	119.1	5.3
80°-90°	29.1	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°	654.0	28.8
0°-40°	1077.9	47.5
0°-60°	1872.5	82.6
0°-90°	2267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	818	818	816	820	821	78
15°	790	795	801	810	813	223
25°	736	742	757	776	783	339
35°	653	660	678	699	706	408
45°	544	545	561	572	573	419
55°	410	406	409	409	406	366
65°	267	256	248	238	234	265
75°	134	124	110	96	87	143
85°	32	25	22	22	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	819.8	819.8	817.6	819.8	820.9
5°	817.6	817.6	816.4	819.8	820.9
7.5°	813.1	814.2	814.2	818.7	820.9
10°	807.4	809.7	810.8	817.6	818.7
12.5°	800.7	802.9	806.3	814.2	815.3
15°	790.5	795.0	800.7	809.7	813.1
17.5°	780.4	784.9	791.7	804.1	807.4
20°	766.9	772.5	782.7	797.3	802.9
22.5°	753.4	757.9	770.3	788.3	793.9
25°	736.5	742.1	756.8	775.9	782.7
27.5°	717.3	725.2	741.0	761.3	768.0
30°	698.2	705.0	721.8	744.4	751.1
32.5°	675.7	682.4	701.6	723.0	730.9
35°	653.2	659.9	677.9	699.3	706.1
37.5°	628.4	632.9	652.0	670.0	676.8
40°	602.5	605.9	622.7	640.8	645.3
42.5°	574.3	576.6	592.3	608.1	609.2
45°	543.9	545.0	560.8	572.1	573.2
47.5°	513.5	512.4	525.9	533.8	534.9
50°	479.7	479.7	488.7	493.2	493.2
52.5°	445.9	443.7	448.2	451.6	448.2
55°	409.9	406.5	408.8	408.8	406.5
57.5°	373.9	367.1	368.2	366.0	360.4
60°	339.0	331.1	327.7	319.8	315.3
62.5°	302.9	293.9	287.2	278.2	277.0
65°	266.9	255.6	247.7	237.6	234.2
67.5°	232.0	221.8	210.6	199.3	192.6
70°	197.1	185.8	175.7	161.0	153.2
72.5°	165.5	155.4	143.0	126.1	120.5
75°	134.0	123.9	110.4	95.7	86.7
77.5°	103.6	95.7	81.1	68.7	67.6
80°	80.0	70.9	54.1	50.7	50.7
82.5°	51.8	46.2	38.3	36.0	36.0
85°	31.5	24.8	22.5	22.5	22.5
87.5°	12.4	11.3	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)