

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: P295609

Luminaire Tested: **14RLN-LD5-26-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-UNV-L93050-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2271.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

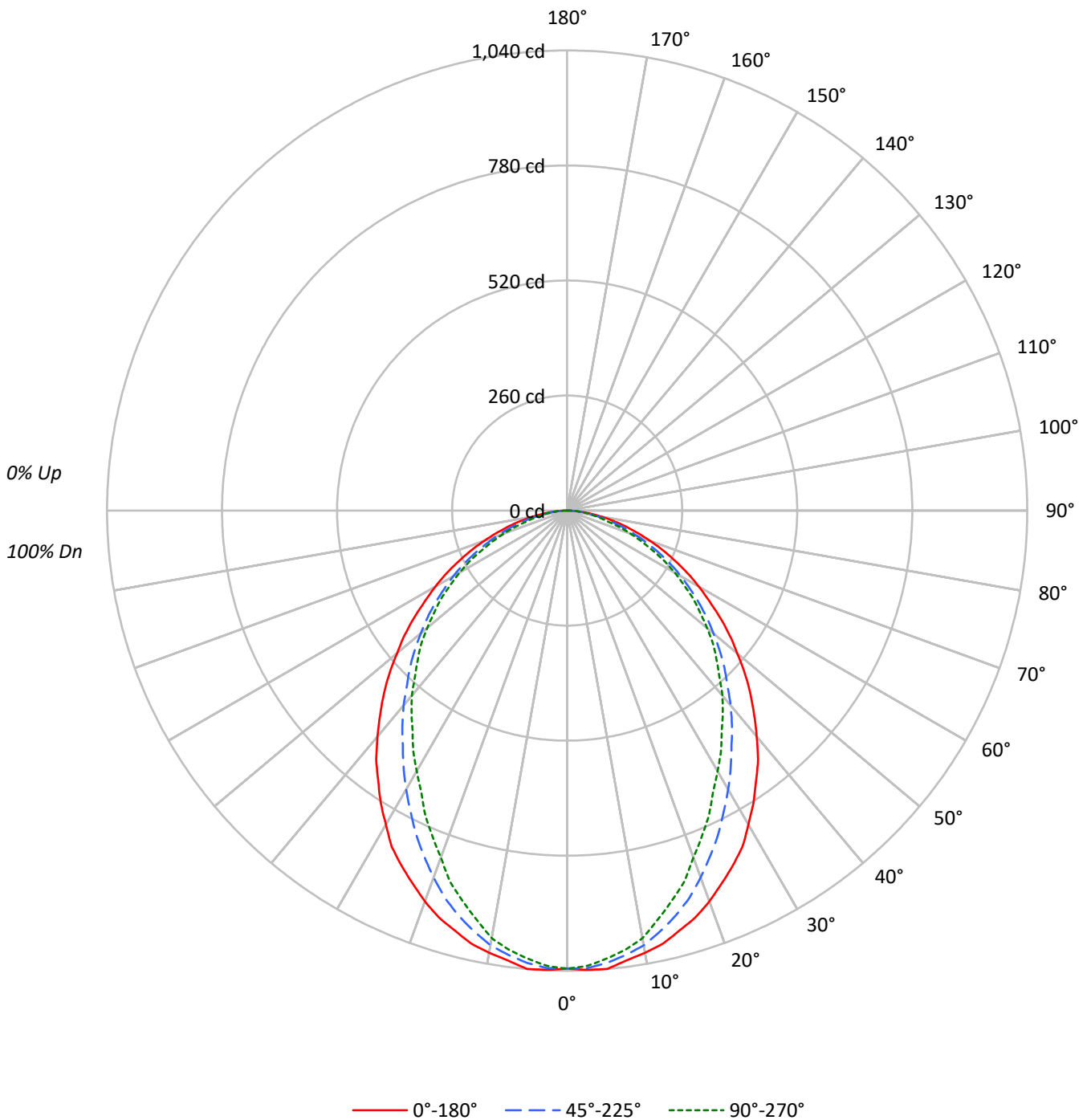
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49					47				
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2785	2785	2785
5°	2809	2773	2747
10°	2773	2726	2681
15°	2737	2640	2544
20°	2692	2527	2390
25°	2629	2398	2253
30°	2545	2262	2113
35°	2445	2127	2001
40°	2342	2018	1917
45°	2230	1913	1818
50°	2100	1807	1727
55°	1980	1706	1634
60°	1854	1601	1513
65°	1716	1478	1356
70°	1563	1328	1200
75°	1407	1187	977
80°	1204	967	922
85°	979	917	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	4.3
10°-20°	266.0	11.7
20°-30°	373.3	16.4
30°-40°	414.1	18.2
40°-50°	397.5	17.5
50°-60°	333.1	14.7
60°-70°	233.8	10.3
70°-80°	122.1	5.4
80°-90°	34.2	1.5
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°	736.2	32.4
0°-40°	1150.3	50.6
0°-60°	1880.9	82.8
0°-90°	2271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1040	1026	1026	1020	1017	98
15°	982	965	948	923	913	277
25°	885	854	808	768	759	407
35°	744	703	648	616	609	466
45°	586	541	503	484	478	451
55°	422	390	364	352	348	378
65°	270	251	232	218	213	268
75°	135	125	114	101	94	143
85°	32	30	30	30	30	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.0	1035.0	1035.0	1035.0	1035.0
2.5°	1038.9	1033.1	1035.0	1035.0	1030.2
5°	1039.8	1026.4	1026.4	1019.7	1016.8
7.5°	1025.4	1014.9	1013.0	1004.3	1001.5
10°	1014.9	1004.3	997.6	986.1	981.3
12.5°	1002.4	986.1	973.6	954.5	946.8
15°	982.3	965.0	947.7	922.8	913.2
17.5°	964.0	943.9	918.0	890.2	879.6
20°	940.1	916.1	882.5	844.1	834.5
22.5°	912.2	884.4	845.1	803.9	796.2
25°	885.4	853.7	807.7	768.4	758.8
27.5°	857.6	819.2	766.4	724.2	714.6
30°	819.2	779.9	728.1	686.8	680.1
32.5°	783.7	744.4	687.8	654.2	646.5
35°	744.4	703.1	647.5	615.8	609.1
37.5°	708.9	660.9	612.0	581.3	577.5
40°	666.7	623.5	574.6	551.6	545.8
42.5°	625.4	582.3	536.2	516.1	509.4
45°	586.1	541.0	502.6	483.5	477.7
47.5°	544.9	503.6	467.2	451.8	448.0
50°	501.7	465.2	431.7	417.3	412.5
52.5°	463.3	425.9	398.1	384.7	378.9
55°	422.1	390.4	363.6	352.0	348.2
57.5°	380.8	354.9	329.0	318.5	312.7
60°	344.4	318.5	297.4	284.9	281.1
62.5°	307.0	284.9	264.8	253.2	248.4
65°	269.5	251.3	232.1	217.7	213.0
67.5°	235.0	214.9	199.5	187.1	182.3
70°	198.6	184.2	168.8	157.3	152.5
72.5°	165.0	154.4	141.0	128.5	123.7
75°	135.3	124.7	114.2	100.7	94.0
77.5°	105.5	98.8	88.3	76.7	76.7
80°	77.7	73.9	62.4	60.4	59.5
82.5°	53.7	51.8	45.1	44.1	44.1
85°	31.7	29.7	29.7	29.7	29.7
87.5°	13.4	14.4	15.3	15.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)