

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: P295642

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295642
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-L92765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2470.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

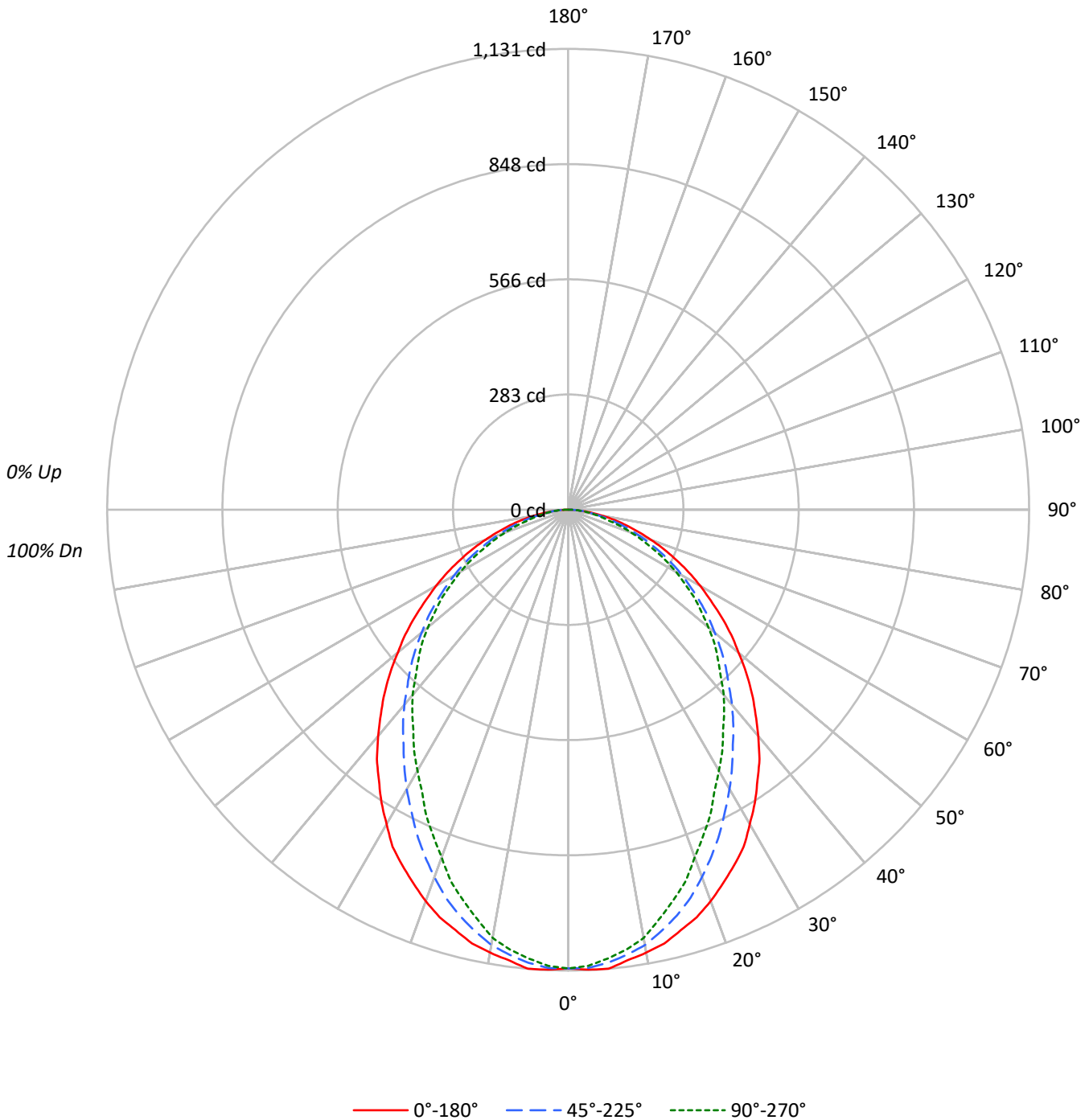
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3029	3029	3029
5°	3055	3015	2987
10°	3016	2965	2916
15°	2976	2872	2767
20°	2928	2749	2599
25°	2859	2608	2450
30°	2769	2461	2298
35°	2660	2313	2176
40°	2547	2195	2085
45°	2426	2081	1977
50°	2284	1966	1878
55°	2154	1855	1777
60°	2016	1741	1645
65°	1867	1608	1475
70°	1699	1445	1305
75°	1529	1291	1063
80°	1309	1051	1003
85°	1062	997	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	4.3
10°-20°	289.3	11.7
20°-30°	406.0	16.4
30°-40°	450.3	18.2
40°-50°	432.3	17.5
50°-60°	362.3	14.7
60°-70°	254.3	10.3
70°-80°	132.8	5.4
80°-90°	37.1	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°	800.7	32.4
0°-40°	1251.0	50.7
0°-60°	2045.7	82.8
0°-90°	2470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1131	1116	1116	1109	1106	107
15°	1068	1050	1031	1004	993	301
25°	963	928	878	836	825	443
35°	810	765	704	670	662	507
45°	638	588	547	526	520	491
55°	459	425	395	383	379	411
65°	293	273	252	237	232	291
75°	147	136	124	110	102	156
85°	34	32	32	32	32	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.7	1125.7	1125.7	1125.7	1125.7
2.5°	1129.9	1123.6	1125.7	1125.7	1120.5
5°	1130.9	1116.3	1116.3	1109.0	1105.9
7.5°	1115.3	1103.8	1101.7	1092.3	1089.2
10°	1103.8	1092.3	1085.0	1072.5	1067.3
12.5°	1090.3	1072.5	1059.0	1038.1	1029.7
15°	1068.3	1049.6	1030.8	1003.7	993.2
17.5°	1048.5	1026.6	998.4	968.2	956.7
20°	1022.4	996.4	959.8	918.1	907.7
22.5°	992.2	961.9	919.2	874.3	865.9
25°	963.0	928.5	878.5	835.7	825.3
27.5°	932.7	891.0	833.6	787.7	777.3
30°	891.0	848.2	791.9	747.0	739.7
32.5°	852.4	809.6	748.1	711.5	703.2
35°	809.6	764.7	704.2	669.8	662.5
37.5°	771.0	718.8	665.6	632.2	628.1
40°	725.1	678.1	624.9	599.9	593.6
42.5°	680.2	633.3	583.2	561.3	554.0
45°	637.5	588.4	546.7	525.8	519.6
47.5°	592.6	547.7	508.1	491.4	487.2
50°	545.6	506.0	469.5	453.8	448.6
52.5°	503.9	463.2	433.0	418.4	412.1
55°	459.1	424.6	395.4	382.9	378.7
57.5°	414.2	386.0	357.9	346.4	340.1
60°	374.5	346.4	323.4	309.9	305.7
62.5°	333.9	309.9	288.0	275.4	270.2
65°	293.2	273.3	252.5	236.8	231.6
67.5°	255.6	233.7	217.0	203.4	198.2
70°	216.0	200.3	183.6	171.1	165.9
72.5°	179.4	168.0	153.4	139.8	134.6
75°	147.1	135.6	124.2	109.5	102.2
77.5°	114.8	107.5	96.0	83.5	83.5
80°	84.5	80.3	67.8	65.7	64.7
82.5°	58.4	56.3	49.0	48.0	48.0
85°	34.4	32.3	32.3	32.3	32.3
87.5°	14.6	15.6	16.7	16.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)