

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: P295538

Luminaire Tested: **14RLN-LD5-26-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295538
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-L83050-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2525.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

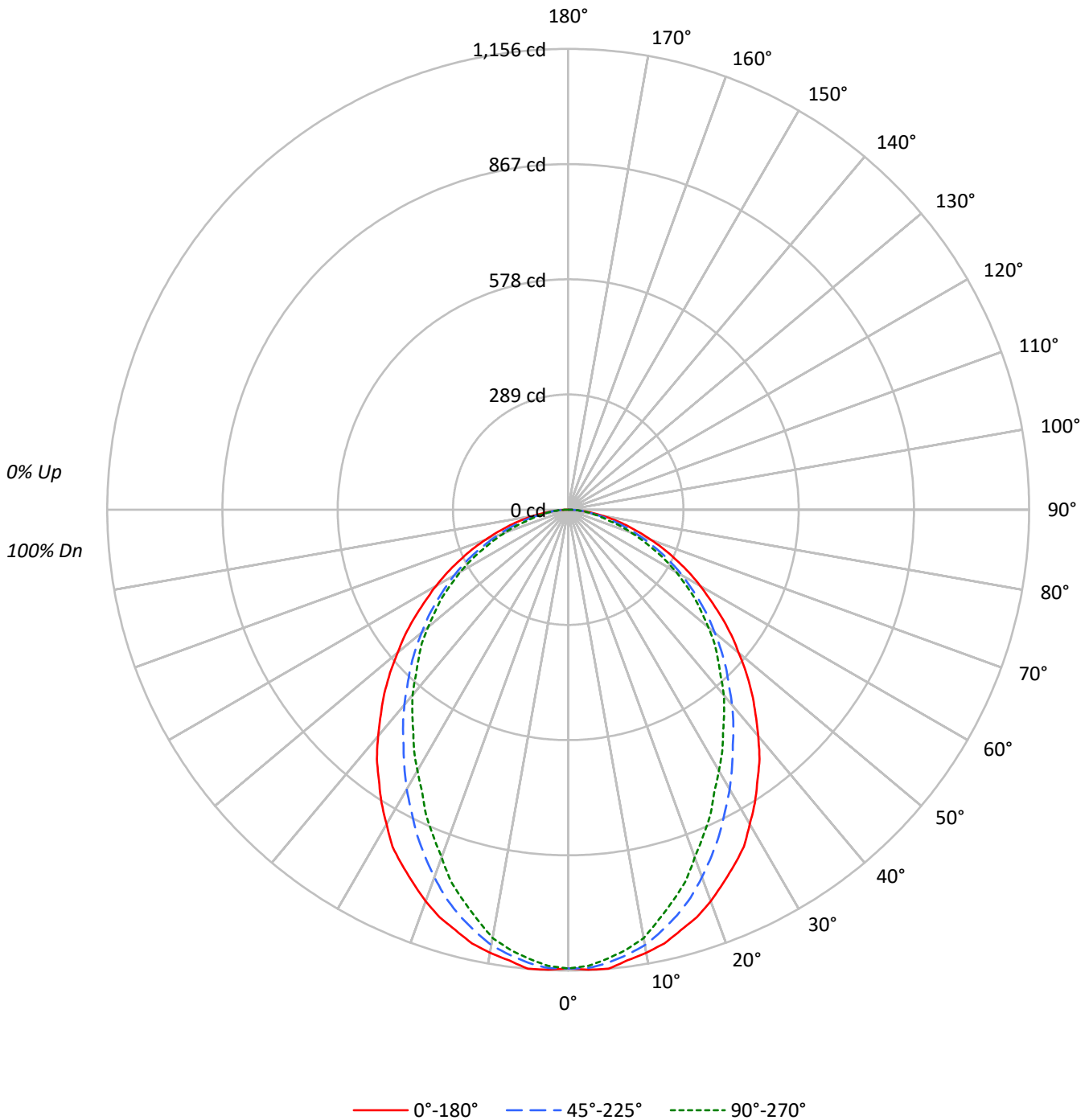
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3097	3097	3097
5°	3123	3083	3054
10°	3083	3031	2981
15°	3042	2936	2829
20°	2993	2810	2657
25°	2923	2666	2505
30°	2830	2515	2350
35°	2719	2365	2225
40°	2604	2244	2132
45°	2480	2127	2021
50°	2335	2009	1920
55°	2202	1896	1817
60°	2061	1779	1682
65°	1908	1643	1508
70°	1737	1477	1334
75°	1564	1319	1087
80°	1339	1074	1024
85°	1087	1022	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.3
10°-20°	295.7	11.7
20°-30°	415.1	16.4
30°-40°	460.4	18.2
40°-50°	441.9	17.5
50°-60°	370.4	14.7
60°-70°	260.0	10.3
70°-80°	135.8	5.4
80°-90°	38.0	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°	818.5	32.4
0°-40°	1278.9	50.6
0°-60°	2091.2	82.8
0°-90°	2525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1141	1141	1134	1130	109
15°	1092	1073	1054	1026	1015	308
25°	984	949	898	854	844	453
35°	828	782	720	685	677	518
45°	652	602	559	538	531	502
55°	469	434	404	391	387	420
65°	300	279	258	242	237	298
75°	150	139	127	112	104	159
85°	35	33	33	33	33	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.8	1150.8	1150.8	1150.8	1150.8
2.5°	1155.1	1148.7	1150.8	1150.8	1145.5
5°	1156.1	1141.2	1141.2	1133.7	1130.5
7.5°	1140.1	1128.4	1126.3	1116.7	1113.5
10°	1128.4	1116.7	1109.2	1096.4	1091.1
12.5°	1114.5	1096.4	1082.5	1061.2	1052.7
15°	1092.1	1072.9	1053.7	1026.0	1015.3
17.5°	1071.9	1049.5	1020.7	989.7	978.0
20°	1045.2	1018.5	981.2	938.6	927.9
22.5°	1014.3	983.3	939.6	893.8	885.2
25°	984.4	949.2	898.0	854.3	843.6
27.5°	953.5	910.8	852.2	805.2	794.6
30°	910.8	867.1	809.5	763.6	756.2
32.5°	871.4	827.6	764.7	727.4	718.8
35°	827.6	781.8	719.9	684.7	677.3
37.5°	788.2	734.8	680.5	646.3	642.1
40°	741.2	693.2	638.9	613.3	606.9
42.5°	695.4	647.4	596.2	573.8	566.3
45°	651.7	601.5	558.9	537.5	531.1
47.5°	605.8	559.9	519.4	502.3	498.1
50°	557.8	517.3	479.9	463.9	458.6
52.5°	515.1	473.5	442.6	427.7	421.3
55°	469.3	434.1	404.2	391.4	387.2
57.5°	423.4	394.6	365.8	354.1	347.7
60°	382.9	354.1	330.6	316.8	312.5
62.5°	341.3	316.8	294.4	281.6	276.2
65°	299.7	279.4	258.1	242.1	236.8
67.5°	261.3	238.9	221.8	208.0	202.6
70°	220.8	204.8	187.7	174.9	169.6
72.5°	183.4	171.7	156.8	142.9	137.6
75°	150.4	138.6	126.9	112.0	104.5
77.5°	117.3	109.9	98.1	85.3	85.3
80°	86.4	82.1	69.3	67.2	66.1
82.5°	59.7	57.6	50.1	49.1	49.1
85°	35.2	33.1	33.1	33.1	33.1
87.5°	14.9	16.0	17.1	17.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)