

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: P295844

Luminaire Tested: **24RLN-LD5-60-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-60-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6024.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

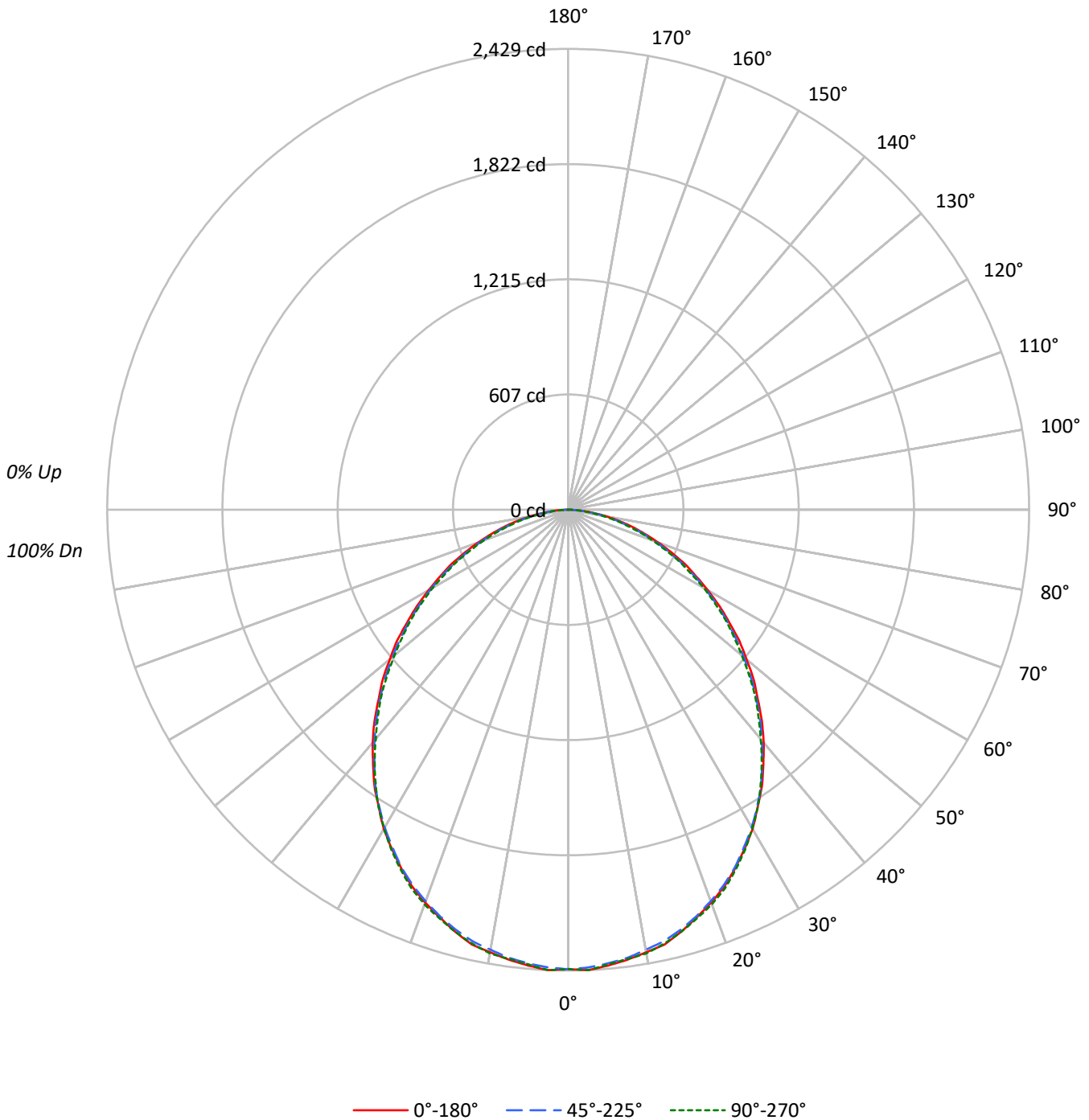
Input Watts (W): 43.245
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3258	3258	3258
5°	3257	3242	3249
10°	3237	3218	3245
15°	3208	3192	3208
20°	3155	3144	3169
25°	3093	3087	3104
30°	3019	3004	3013
35°	2924	2911	2905
40°	2816	2789	2772
45°	2688	2662	2651
50°	2567	2526	2498
55°	2430	2393	2371
60°	2285	2243	2217
65°	2159	2079	2060
70°	1980	1904	1865
75°	1818	1707	1637
80°	1596	1491	1400
85°	1291	1200	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.8
10°-20°	647.7	10.8
20°-30°	958.1	15.9
30°-40°	1105.8	18.4
40°-50°	1080.0	17.9
50°-60°	912.0	15.1
60°-70°	649.6	10.8
70°-80°	351.7	5.8
80°-90°	90.7	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°	1834.3	30.4
0°-40°	2940.0	48.8
0°-60°	4932.0	81.9
0°-90°	6024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2412	2412	2400	2406	2406	229
15°	2303	2293	2291	2301	2303	649
25°	2083	2072	2079	2087	2091	959
35°	1780	1767	1772	1767	1768	1111
45°	1413	1401	1399	1393	1393	1092
55°	1036	1022	1020	1011	1011	929
65°	678	665	653	645	647	669
75°	350	338	328	321	315	370
85°	84	82	78	68	66	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2421.5	2421.5	2421.5	2421.5	2421.5
2.5°	2429.3	2419.5	2415.6	2417.6	2429.3
5°	2411.8	2411.8	2400.1	2405.9	2405.9
7.5°	2392.3	2394.3	2382.6	2392.3	2388.4
10°	2369.0	2363.2	2355.4	2370.9	2374.8
12.5°	2347.6	2334.0	2330.1	2339.9	2341.8
15°	2302.9	2293.2	2291.3	2301.0	2302.9
17.5°	2252.4	2254.3	2246.6	2260.2	2258.2
20°	2203.8	2199.9	2196.0	2211.6	2213.5
22.5°	2149.4	2137.7	2141.6	2155.2	2159.1
25°	2083.3	2071.7	2079.4	2087.2	2091.1
27.5°	2013.4	2007.5	2005.6	2015.3	2019.2
30°	1943.4	1933.7	1933.7	1945.3	1939.5
32.5°	1857.9	1850.1	1854.0	1857.9	1859.8
35°	1780.2	1766.6	1772.4	1766.6	1768.5
37.5°	1688.8	1679.1	1677.2	1675.2	1675.2
40°	1603.3	1595.5	1587.8	1587.8	1578.0
42.5°	1510.0	1500.3	1496.4	1490.6	1484.8
45°	1412.9	1401.2	1399.2	1393.4	1393.4
47.5°	1325.4	1307.9	1306.0	1294.3	1294.3
50°	1226.3	1214.6	1206.9	1199.1	1193.2
52.5°	1136.9	1125.2	1113.6	1105.8	1100.0
55°	1035.8	1022.2	1020.3	1010.6	1010.6
57.5°	944.5	932.8	925.1	913.4	915.3
60°	849.3	837.6	833.7	824.0	824.0
62.5°	759.9	750.2	744.3	734.6	726.8
65°	678.2	664.6	653.0	645.2	647.2
67.5°	588.9	573.3	567.5	559.7	553.9
70°	503.3	493.6	483.9	474.2	474.2
72.5°	423.7	413.9	408.1	396.5	392.6
75°	349.8	338.2	328.4	320.7	314.8
77.5°	276.0	264.3	258.5	248.8	248.8
80°	206.0	198.2	192.4	188.5	180.7
82.5°	141.9	138.0	132.2	126.3	120.5
85°	83.6	81.6	77.7	68.0	66.1
87.5°	33.0	33.0	29.2	27.2	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)