

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: P296136

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-RDP-UNV-L83050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6534.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

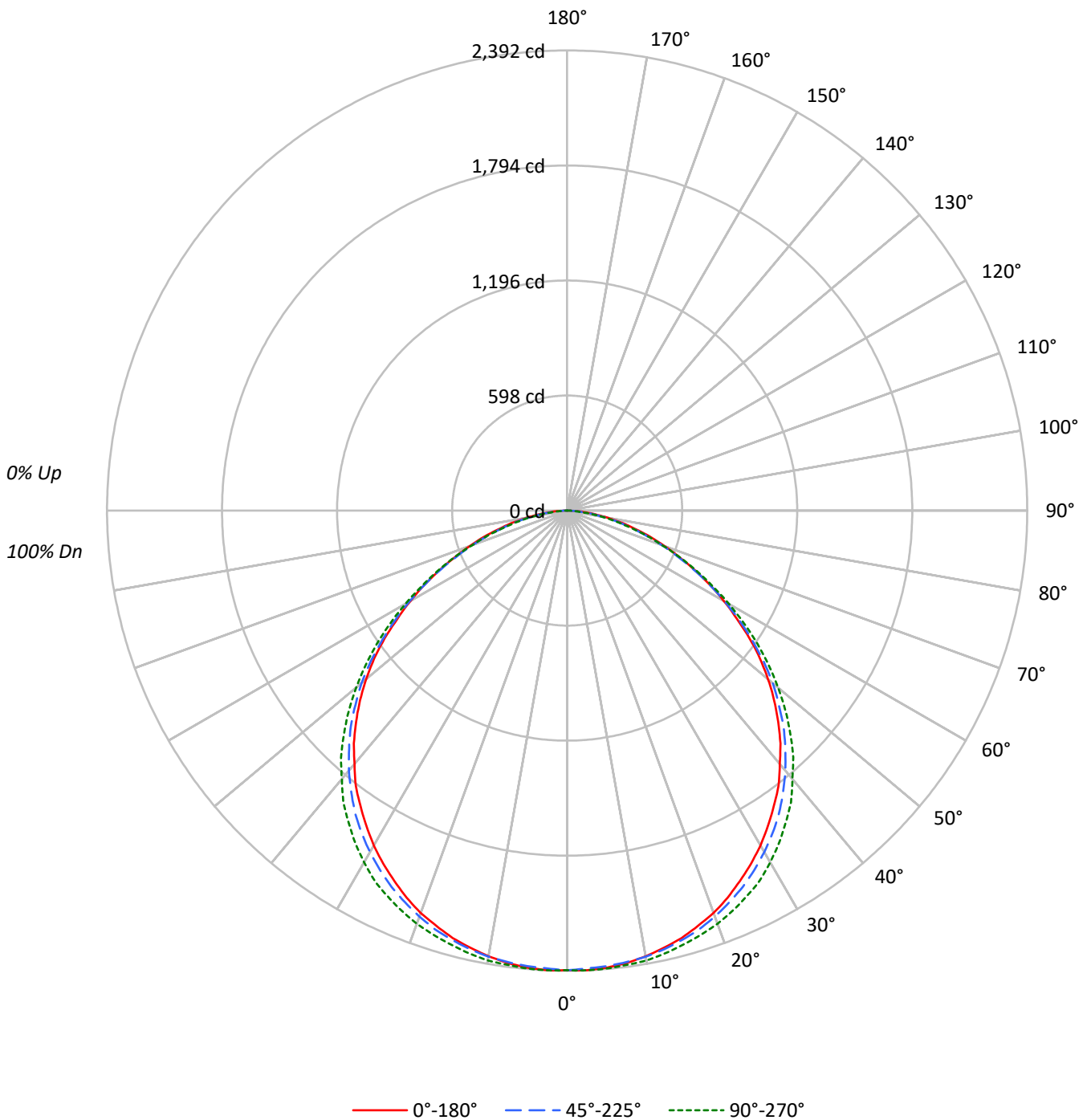
Input Watts (W): 57.753
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3215	3215	3215
5°	3221	3211	3227
10°	3214	3217	3244
15°	3204	3218	3253
20°	3187	3215	3272
25°	3154	3205	3282
30°	3123	3185	3281
35°	3078	3155	3253
40°	3021	3100	3200
45°	2953	3028	3122
50°	2854	2921	2999
55°	2715	2750	2832
60°	2535	2548	2615
65°	2328	2312	2367
70°	2116	2057	2067
75°	1881	1778	1765
80°	1633	1460	1421
85°	1340	1033	804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	3.5
10°-20°	653.3	10.0
20°-30°	997.2	15.3
30°-40°	1202.2	18.4
40°-50°	1226.0	18.8
50°-60°	1049.2	16.1
60°-70°	722.7	11.1
70°-80°	370.5	5.7
80°-90°	86.2	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°	1877.1	28.7
0°-40°	3079.3	47.1
0°-60°	5354.5	81.9
0°-90°	6534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2385	2380	2377	2385	2390	227
15°	2300	2298	2310	2328	2335	649
25°	2124	2132	2159	2196	2211	980
35°	1874	1881	1921	1963	1980	1172
45°	1552	1554	1591	1631	1641	1196
55°	1158	1150	1172	1197	1207	1033
65°	731	714	726	731	744	727
75°	362	347	342	342	340	390
85°	87	77	67	60	52	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.5	2389.5	2389.5	2389.5	2389.5
2.5°	2392.0	2387.0	2382.1	2387.0	2392.0
5°	2384.6	2379.6	2377.1	2384.6	2389.5
7.5°	2372.2	2367.2	2367.2	2377.1	2382.1
10°	2352.3	2349.8	2354.8	2364.7	2374.6
12.5°	2327.5	2327.5	2335.0	2347.4	2357.3
15°	2300.3	2297.8	2310.2	2327.5	2335.0
17.5°	2263.1	2265.6	2282.9	2302.8	2312.7
20°	2225.9	2228.4	2245.7	2273.0	2285.4
22.5°	2178.8	2183.8	2203.6	2238.3	2250.7
25°	2124.3	2131.7	2159.0	2196.2	2211.0
27.5°	2069.8	2077.2	2106.9	2149.1	2168.9
30°	2010.3	2020.2	2049.9	2094.5	2111.9
32.5°	1943.3	1950.8	1988.0	2032.6	2049.9
35°	1873.9	1881.4	1921.0	1963.2	1980.5
37.5°	1804.5	1804.5	1844.2	1893.8	1911.1
40°	1720.2	1722.7	1764.9	1812.0	1821.9
42.5°	1640.9	1640.9	1678.1	1722.7	1740.1
45°	1551.7	1554.2	1591.4	1631.0	1640.9
47.5°	1460.0	1460.0	1492.2	1529.4	1539.3
50°	1363.3	1358.4	1395.5	1425.3	1432.7
52.5°	1264.2	1256.7	1286.5	1311.3	1321.2
55°	1157.6	1150.1	1172.4	1197.2	1207.1
57.5°	1046.0	1036.1	1060.9	1083.2	1088.2
60°	941.9	927.1	946.9	959.3	971.7
62.5°	837.8	820.5	835.3	842.8	852.7
65°	731.2	713.9	726.3	731.2	743.6
67.5°	629.6	617.2	619.7	627.1	632.1
70°	537.9	523.0	523.0	523.0	525.5
72.5°	453.6	431.3	428.8	431.3	431.3
75°	361.9	347.0	342.1	342.1	339.6
77.5°	290.0	270.2	267.7	262.7	257.8
80°	210.7	193.3	188.4	185.9	183.4
82.5°	146.2	131.4	126.4	121.5	114.0
85°	86.8	76.8	66.9	59.5	52.1
87.5°	32.2	29.7	24.8	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)