

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: P296221

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296221
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-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6410.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

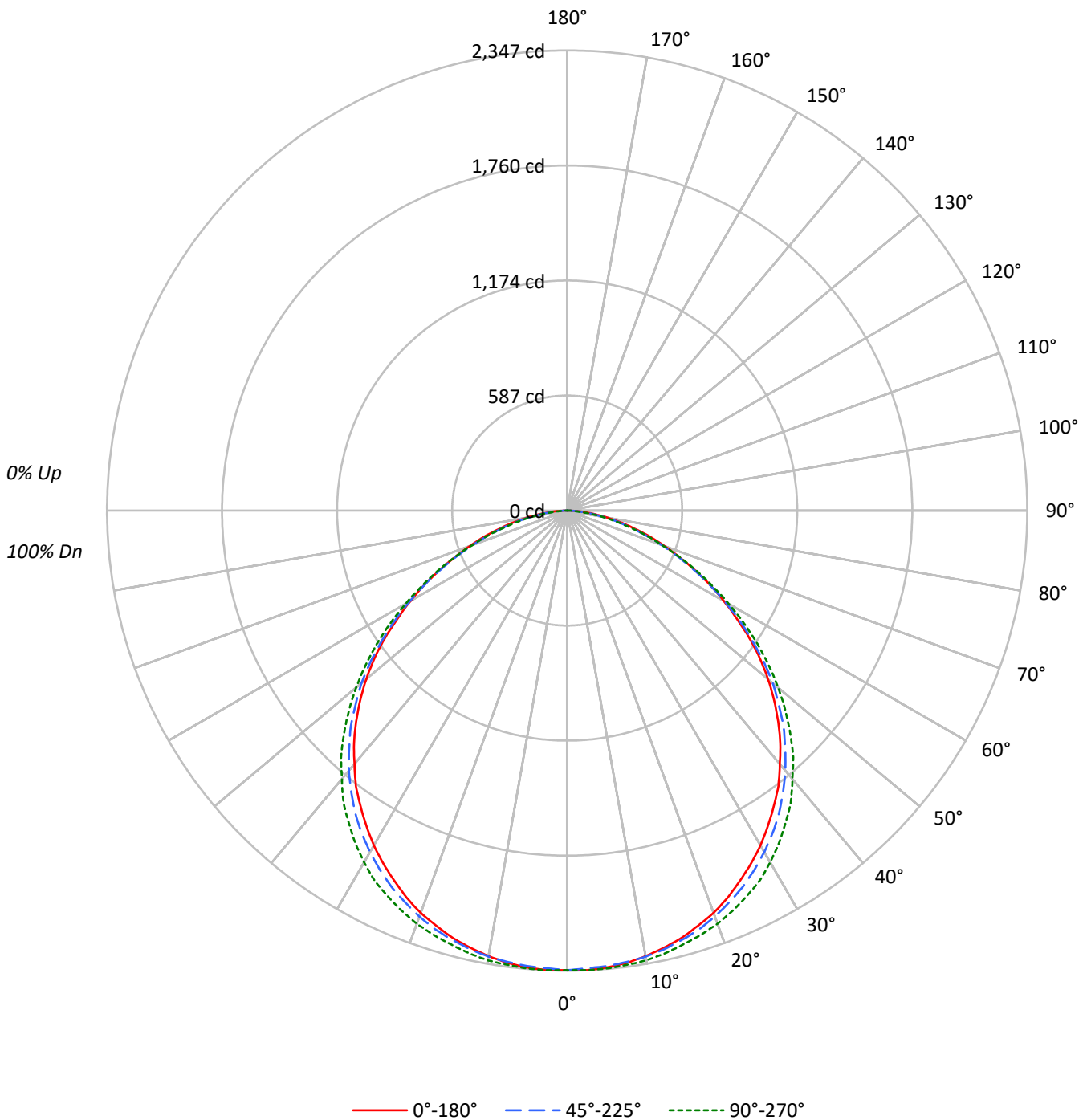
Input Watts (W): 56.637
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3154	3154	3154
5°	3160	3150	3166
10°	3153	3156	3183
15°	3143	3157	3191
20°	3127	3154	3210
25°	3094	3144	3220
30°	3064	3124	3219
35°	3020	3096	3191
40°	2964	3041	3139
45°	2896	2971	3063
50°	2799	2866	2942
55°	2664	2698	2778
60°	2486	2500	2565
65°	2284	2268	2323
70°	2076	2019	2028
75°	1845	1745	1732
80°	1602	1432	1394
85°	1314	1014	789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	3.5
10°-20°	640.9	10.0
20°-30°	978.3	15.3
30°-40°	1179.4	18.4
40°-50°	1202.7	18.8
50°-60°	1029.3	16.1
60°-70°	709.0	11.1
70°-80°	363.5	5.7
80°-90°	84.6	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°	1841.5	28.7
0°-40°	3020.9	47.1
0°-60°	5252.9	81.9
0°-90°	6410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2339	2334	2332	2339	2344	222
15°	2257	2254	2266	2283	2291	636
25°	2084	2091	2118	2154	2169	961
35°	1838	1846	1885	1926	1943	1150
45°	1522	1525	1561	1600	1610	1173
55°	1136	1128	1150	1174	1184	1013
65°	717	700	712	717	730	713
75°	355	340	336	336	333	383
85°	85	75	66	58	51	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2346.6	2341.7	2336.9	2341.7	2346.6
5°	2339.3	2334.4	2332.0	2339.3	2344.2
7.5°	2327.1	2322.3	2322.3	2332.0	2336.9
10°	2307.7	2305.3	2310.1	2319.8	2329.6
12.5°	2283.4	2283.4	2290.7	2302.8	2312.5
15°	2256.6	2254.2	2266.3	2283.4	2290.7
17.5°	2220.1	2222.6	2239.6	2259.1	2268.8
20°	2183.7	2186.1	2203.1	2229.9	2242.0
22.5°	2137.5	2142.3	2161.8	2195.8	2208.0
25°	2084.0	2091.3	2118.0	2154.5	2169.1
27.5°	2030.5	2037.8	2066.9	2108.3	2127.7
30°	1972.1	1981.8	2011.0	2054.8	2071.8
32.5°	1906.5	1913.7	1950.2	1994.0	2011.0
35°	1838.4	1845.7	1884.6	1925.9	1942.9
37.5°	1770.3	1770.3	1809.2	1857.8	1874.8
40°	1687.6	1690.0	1731.4	1777.6	1787.3
42.5°	1609.8	1609.8	1646.3	1690.0	1707.1
45°	1522.2	1524.7	1561.2	1600.1	1609.8
47.5°	1432.3	1432.3	1463.9	1500.4	1510.1
50°	1337.4	1332.6	1369.0	1398.2	1405.5
52.5°	1240.2	1232.9	1262.1	1286.4	1296.1
55°	1135.6	1128.3	1150.2	1174.5	1184.2
57.5°	1026.2	1016.5	1040.8	1062.7	1067.5
60°	924.0	909.5	928.9	941.1	953.2
62.5°	821.9	804.9	819.5	826.8	836.5
65°	717.4	700.3	712.5	717.4	729.5
67.5°	617.7	605.5	607.9	615.2	620.1
70°	527.7	513.1	513.1	513.1	515.5
72.5°	445.0	423.1	420.7	423.1	423.1
75°	355.0	340.4	335.6	335.6	333.1
77.5°	284.5	265.1	262.6	257.8	252.9
80°	206.7	189.7	184.8	182.4	179.9
82.5°	143.5	128.9	124.0	119.2	111.9
85°	85.1	75.4	65.7	58.4	51.1
87.5°	31.6	29.2	24.3	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)