

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: P296331

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296331
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-LD5-55-RDP-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

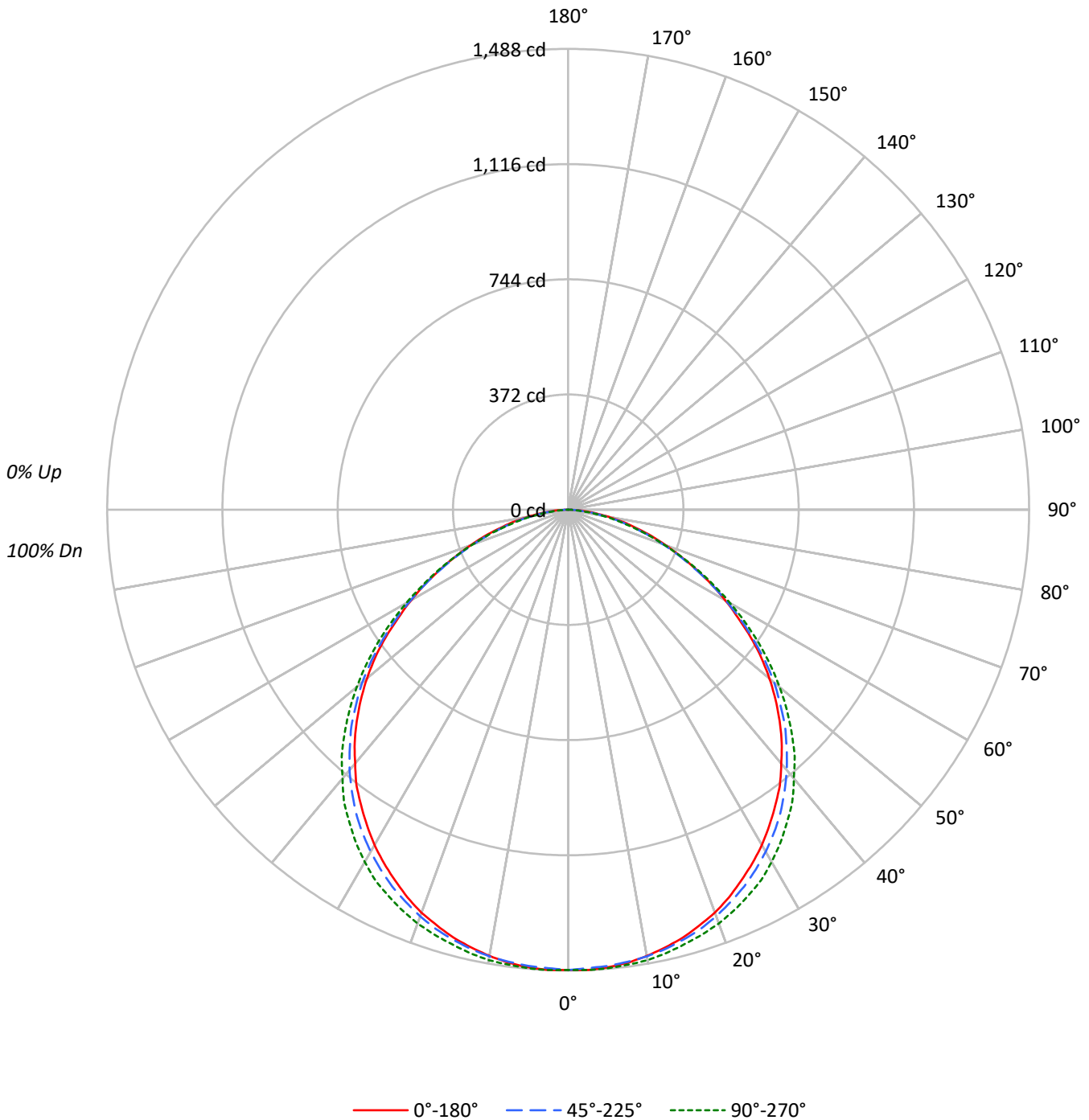
Input Watts (W): 38.781
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2000	2000	2000
5°	2003	1997	2007
10°	1999	2001	2018
15°	1993	2002	2023
20°	1982	2000	2035
25°	1962	1993	2042
30°	1943	1981	2041
35°	1914	1963	2023
40°	1879	1928	1990
45°	1836	1883	1942
50°	1775	1817	1865
55°	1689	1711	1761
60°	1577	1585	1626
65°	1448	1438	1472
70°	1316	1280	1286
75°	1170	1106	1098
80°	1015	908	884
85°	834	642	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.5
10°-20°	406.3	10.0
20°-30°	620.2	15.3
30°-40°	747.7	18.4
40°-50°	762.5	18.8
50°-60°	652.6	16.1
60°-70°	449.5	11.1
70°-80°	230.4	5.7
80°-90°	53.6	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°	1167.5	28.7
0°-40°	1915.3	47.1
0°-60°	3330.4	81.9
0°-90°	4064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1483	1480	1478	1483	1486	141
15°	1431	1429	1437	1448	1452	403
25°	1321	1326	1343	1366	1375	609
35°	1166	1170	1195	1221	1232	729
45°	965	967	990	1014	1021	744
55°	720	715	729	745	751	642
65°	455	444	452	455	462	452
75°	225	216	213	213	211	243
85°	54	48	42	37	32	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.2	1486.2	1486.2	1486.2	1486.2
2.5°	1487.8	1484.7	1481.6	1484.7	1487.8
5°	1483.1	1480.1	1478.5	1483.1	1486.2
7.5°	1475.4	1472.3	1472.3	1478.5	1481.6
10°	1463.1	1461.6	1464.6	1470.8	1477.0
12.5°	1447.7	1447.7	1452.3	1460.0	1466.2
15°	1430.7	1429.2	1436.9	1447.7	1452.3
17.5°	1407.6	1409.1	1419.9	1432.3	1438.4
20°	1384.5	1386.0	1396.8	1413.8	1421.5
22.5°	1355.2	1358.3	1370.6	1392.2	1399.9
25°	1321.3	1325.9	1342.8	1366.0	1375.2
27.5°	1287.3	1292.0	1310.5	1336.7	1349.0
30°	1250.3	1256.5	1275.0	1302.8	1313.5
32.5°	1208.7	1213.3	1236.5	1264.2	1275.0
35°	1165.5	1170.2	1194.8	1221.0	1231.8
37.5°	1122.4	1122.4	1147.0	1177.9	1188.7
40°	1070.0	1071.5	1097.7	1127.0	1133.2
42.5°	1020.6	1020.6	1043.7	1071.5	1082.3
45°	965.1	966.7	989.8	1014.5	1020.6
47.5°	908.1	908.1	928.1	951.2	957.4
50°	847.9	844.9	868.0	886.5	891.1
52.5°	786.3	781.7	800.2	815.6	821.7
55°	720.0	715.4	729.2	744.7	750.8
57.5°	650.6	644.4	659.9	673.7	676.8
60°	585.9	576.6	588.9	596.6	604.4
62.5°	521.1	510.3	519.6	524.2	530.4
65°	454.8	444.0	451.7	454.8	462.5
67.5°	391.6	383.9	385.4	390.1	393.1
70°	334.6	325.3	325.3	325.3	326.8
72.5°	282.1	268.3	266.7	268.3	268.3
75°	225.1	215.8	212.8	212.8	211.2
77.5°	180.4	168.0	166.5	163.4	160.3
80°	131.0	120.3	117.2	115.6	114.1
82.5°	91.0	81.7	78.6	75.5	70.9
85°	54.0	47.8	41.6	37.0	32.4
87.5°	20.0	18.5	15.4	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)