

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: P296261

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296261
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-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4298.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

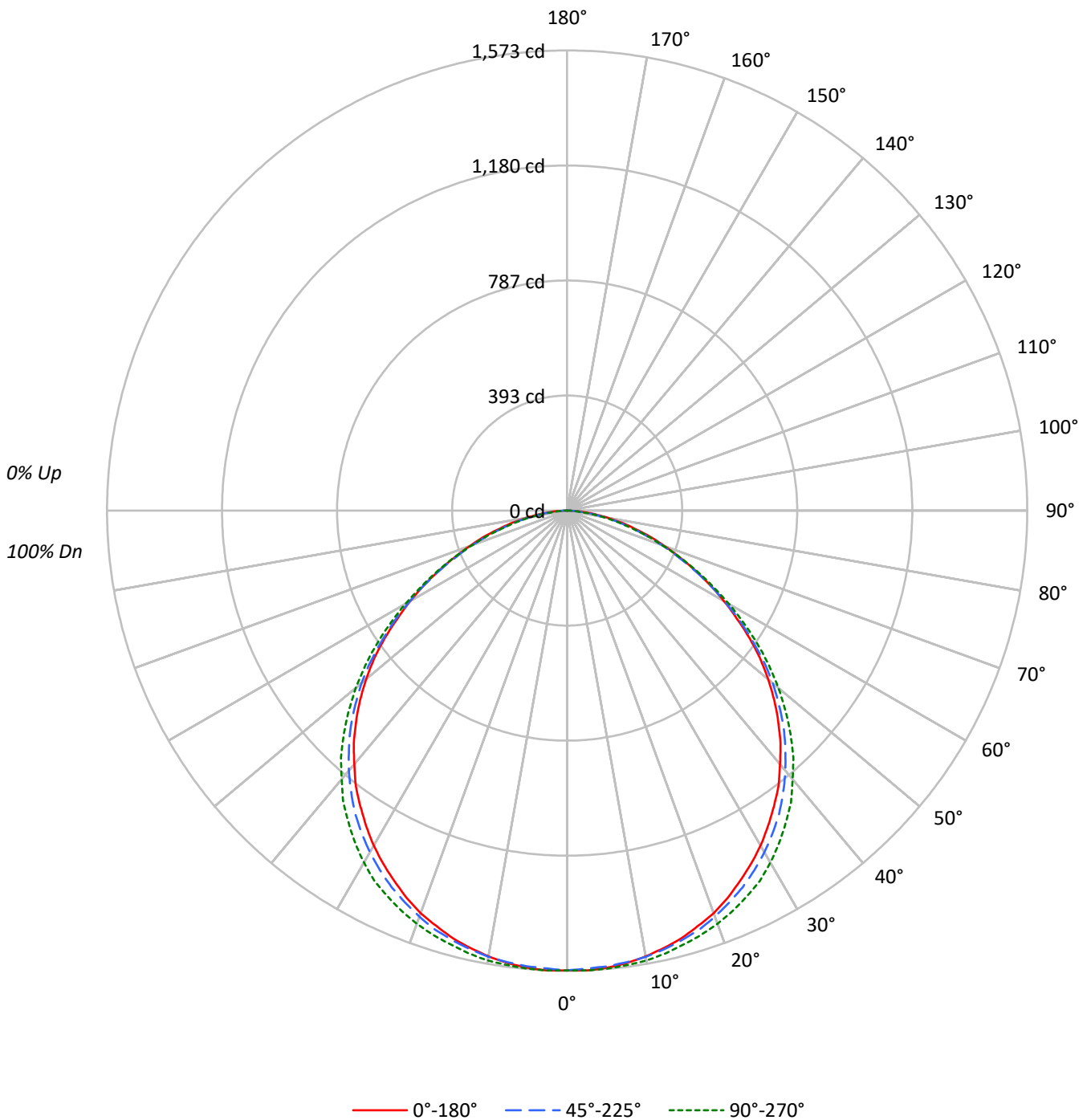
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2115	2115	2115
5°	2118	2112	2123
10°	2114	2116	2134
15°	2108	2117	2139
20°	2096	2115	2152
25°	2074	2108	2159
30°	2054	2095	2158
35°	2025	2076	2140
40°	1988	2039	2105
45°	1942	1992	2054
50°	1877	1922	1973
55°	1786	1809	1863
60°	1667	1676	1720
65°	1531	1521	1557
70°	1392	1353	1360
75°	1238	1170	1161
80°	1074	960	935
85°	881	679	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.5
10°-20°	429.7	10.0
20°-30°	656.0	15.3
30°-40°	790.8	18.4
40°-50°	806.4	18.8
50°-60°	690.2	16.1
60°-70°	475.4	11.1
70°-80°	243.7	5.7
80°-90°	56.7	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°	1234.8	28.7
0°-40°	2025.6	47.1
0°-60°	3522.2	81.9
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1568	1565	1564	1568	1572	149
15°	1513	1512	1520	1531	1536	427
25°	1397	1402	1420	1445	1454	644
35°	1233	1238	1264	1291	1303	771
45°	1021	1022	1047	1073	1079	786
55°	761	756	771	788	794	679
65°	481	470	478	481	489	478
75°	238	228	225	225	223	257
85°	57	50	44	39	34	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.8	1571.8	1571.8	1571.8	1571.8
2.5°	1573.4	1570.2	1566.9	1570.2	1573.4
5°	1568.5	1565.3	1563.6	1568.5	1571.8
7.5°	1560.4	1557.1	1557.1	1563.6	1566.9
10°	1547.3	1545.7	1549.0	1555.5	1562.0
12.5°	1531.0	1531.0	1535.9	1544.1	1550.6
15°	1513.1	1511.5	1519.6	1531.0	1535.9
17.5°	1488.6	1490.3	1501.7	1514.7	1521.2
20°	1464.2	1465.8	1477.2	1495.2	1503.3
22.5°	1433.2	1436.5	1449.5	1472.3	1480.5
25°	1397.3	1402.2	1420.2	1444.6	1454.4
27.5°	1361.5	1366.4	1385.9	1413.6	1426.7
30°	1322.3	1328.9	1348.4	1377.8	1389.2
32.5°	1278.3	1283.2	1307.7	1337.0	1348.4
35°	1232.7	1237.5	1263.6	1291.4	1302.8
37.5°	1187.0	1187.0	1213.1	1245.7	1257.1
40°	1131.6	1133.2	1160.9	1191.9	1198.4
42.5°	1079.4	1079.4	1103.8	1133.2	1144.6
45°	1020.7	1022.3	1046.8	1072.9	1079.4
47.5°	960.4	960.4	981.6	1006.0	1012.5
50°	896.8	893.5	918.0	937.5	942.4
52.5°	831.6	826.7	846.2	862.5	869.1
55°	761.4	756.5	771.2	787.5	794.0
57.5°	688.1	681.5	697.9	712.5	715.8
60°	619.6	609.8	622.8	631.0	639.2
62.5°	551.1	539.7	549.5	554.4	560.9
65°	481.0	469.6	477.7	481.0	489.1
67.5°	414.1	406.0	407.6	412.5	415.8
70°	353.8	344.0	344.0	344.0	345.7
72.5°	298.4	283.7	282.1	283.7	283.7
75°	238.1	228.3	225.0	225.0	223.4
77.5°	190.8	177.7	176.1	172.8	169.6
80°	138.6	127.2	123.9	122.3	120.7
82.5°	96.2	86.4	83.2	79.9	75.0
85°	57.1	50.5	44.0	39.1	34.2
87.5°	21.2	19.6	16.3	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)