

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: P296332

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296332
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-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: 4169.0 lumens
Efficiency: N/A
Efficacy: 106.7 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

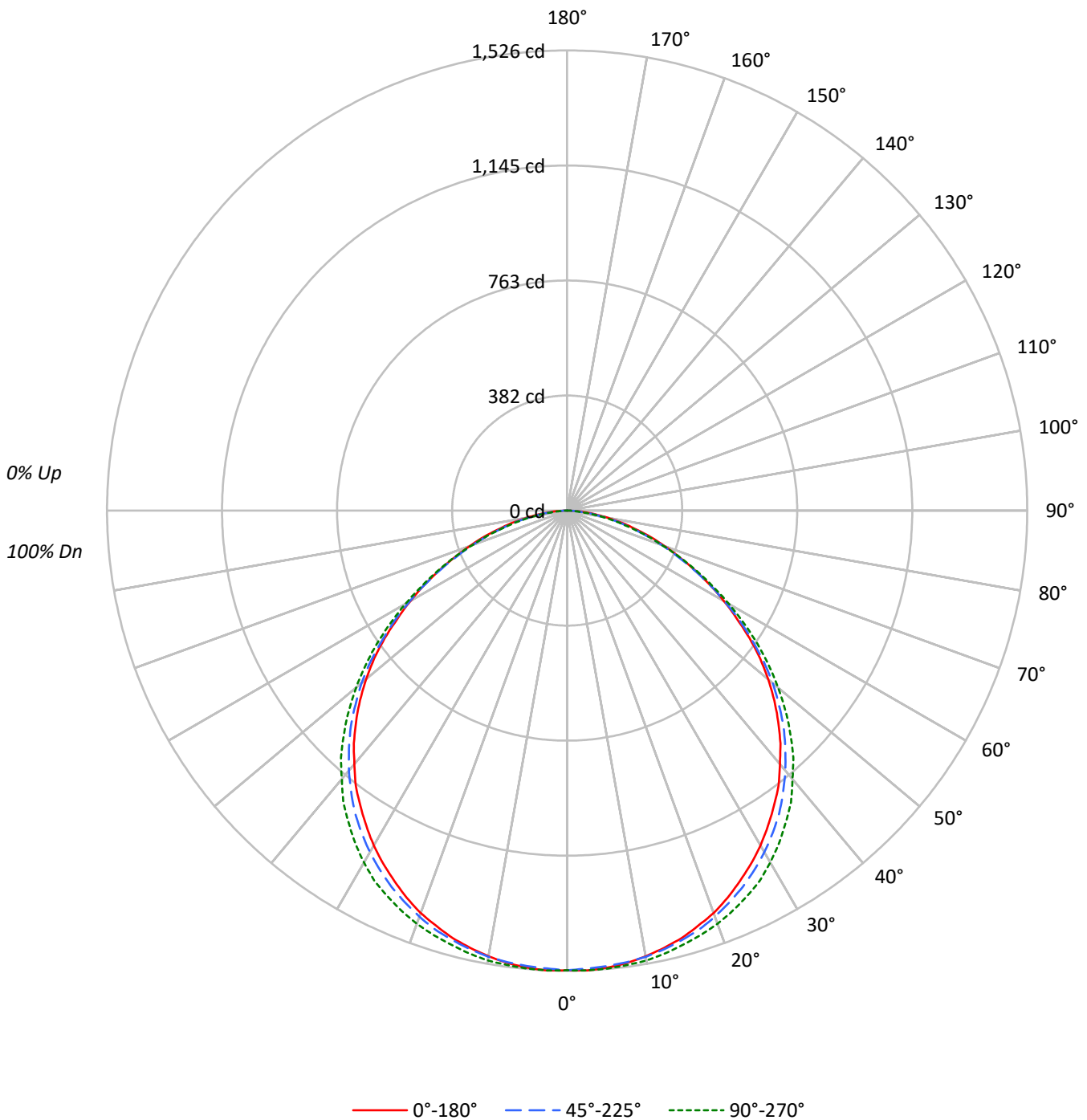
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2051	2051	2051
5°	2055	2048	2059
10°	2051	2053	2070
15°	2044	2053	2075
20°	2033	2052	2088
25°	2012	2045	2094
30°	1993	2032	2094
35°	1964	2013	2076
40°	1928	1978	2042
45°	1884	1932	1992
50°	1821	1864	1913
55°	1733	1755	1807
60°	1617	1626	1668
65°	1486	1475	1511
70°	1350	1313	1319
75°	1200	1135	1127
80°	1041	931	907
85°	855	659	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	3.5
10°-20°	416.8	10.0
20°-30°	636.3	15.3
30°-40°	767.1	18.4
40°-50°	782.2	18.8
50°-60°	669.4	16.1
60°-70°	461.1	11.1
70°-80°	236.4	5.7
80°-90°	55.0	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°	1197.7	28.7
0°-40°	1964.8	47.1
0°-60°	3416.4	81.9
0°-90°	4169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1522	1518	1517	1522	1525	145
15°	1468	1466	1474	1485	1490	414
25°	1355	1360	1378	1401	1411	625
35°	1196	1200	1226	1253	1264	748
45°	990	992	1015	1041	1047	763
55°	739	734	748	764	770	659
65°	467	456	463	467	474	464
75°	231	221	218	218	217	249
85°	55	49	43	38	33	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1524.6	1524.6	1524.6	1524.6	1524.6
2.5°	1526.2	1523.0	1519.9	1523.0	1526.2
5°	1521.5	1518.3	1516.7	1521.5	1524.6
7.5°	1513.5	1510.4	1510.4	1516.7	1519.9
10°	1500.9	1499.3	1502.5	1508.8	1515.1
12.5°	1485.1	1485.1	1489.8	1497.7	1504.1
15°	1467.7	1466.1	1474.0	1485.1	1489.8
17.5°	1444.0	1445.5	1456.6	1469.3	1475.6
20°	1420.2	1421.8	1432.9	1450.3	1458.2
22.5°	1390.2	1393.4	1406.0	1428.1	1436.1
25°	1355.4	1360.1	1377.5	1401.3	1410.7
27.5°	1320.6	1325.3	1344.3	1371.2	1383.9
30°	1282.6	1289.0	1307.9	1336.4	1347.5
32.5°	1239.9	1244.7	1268.4	1296.9	1307.9
35°	1195.7	1200.4	1225.7	1252.6	1263.7
37.5°	1151.4	1151.4	1176.7	1208.3	1219.4
40°	1097.6	1099.2	1126.1	1156.1	1162.4
42.5°	1047.0	1047.0	1070.7	1099.2	1110.3
45°	990.1	991.6	1015.4	1040.7	1047.0
47.5°	931.5	931.5	952.1	975.8	982.1
50°	869.9	866.7	890.4	909.4	914.1
52.5°	806.6	801.8	820.8	836.6	843.0
55°	738.6	733.8	748.1	763.9	770.2
57.5°	667.4	661.1	676.9	691.1	694.3
60°	601.0	591.5	604.2	612.1	620.0
62.5°	534.6	523.5	533.0	537.7	544.1
65°	466.6	455.5	463.4	466.6	474.5
67.5°	401.7	393.8	395.4	400.1	403.3
70°	343.2	333.7	333.7	333.7	335.3
72.5°	289.4	275.2	273.6	275.2	275.2
75°	230.9	221.4	218.3	218.3	216.7
77.5°	185.0	172.4	170.8	167.6	164.5
80°	134.4	123.4	120.2	118.6	117.0
82.5°	93.3	83.8	80.7	77.5	72.8
85°	55.4	49.0	42.7	38.0	33.2
87.5°	20.6	19.0	15.8	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)