

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: P296162

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296162
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-LD5-42-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

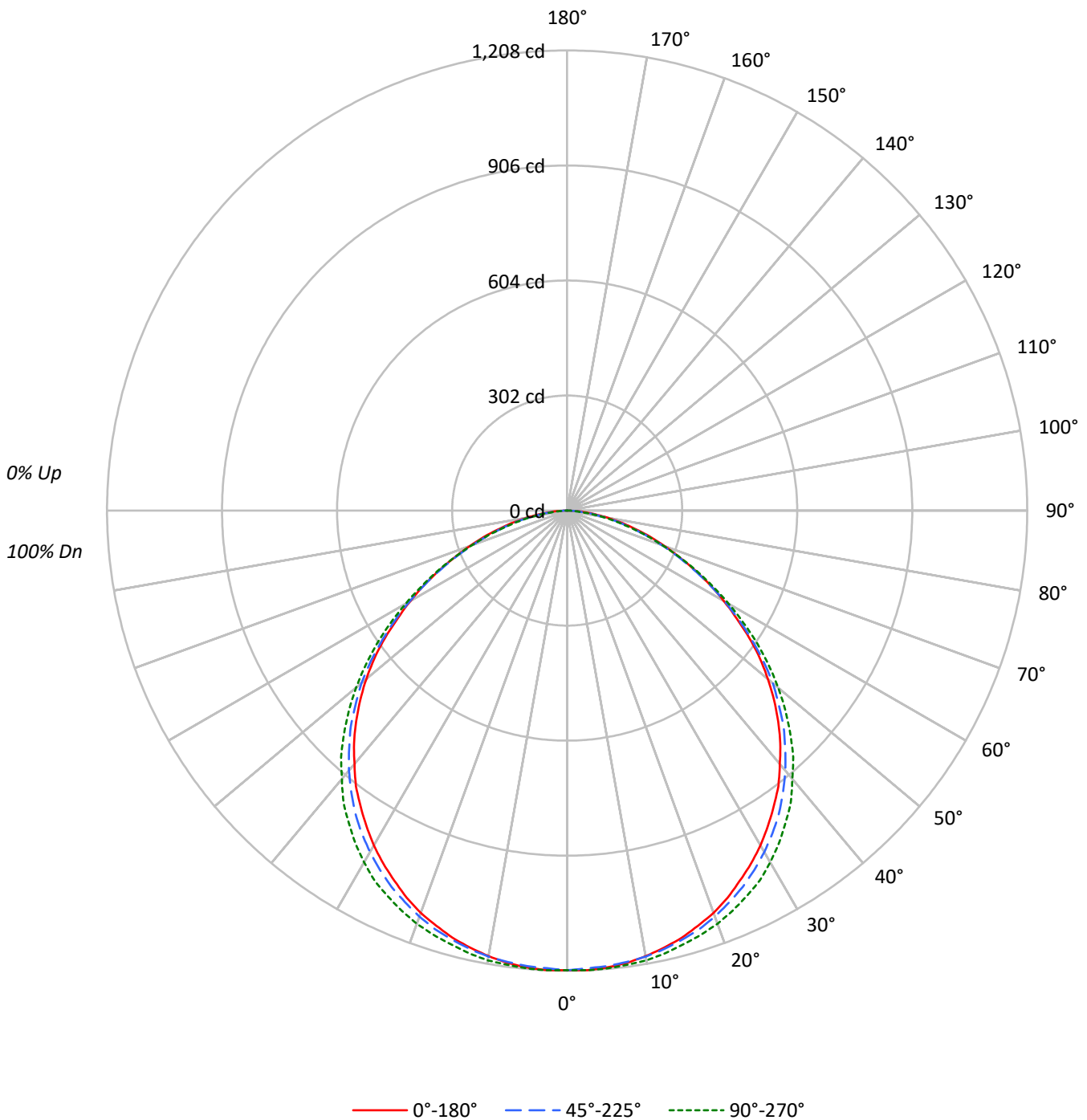
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1623	1623	1623
5°	1626	1621	1630
10°	1623	1624	1638
15°	1618	1625	1642
20°	1609	1624	1652
25°	1592	1618	1657
30°	1577	1608	1657
35°	1554	1593	1643
40°	1525	1565	1616
45°	1491	1529	1576
50°	1441	1475	1514
55°	1371	1389	1430
60°	1280	1287	1320
65°	1175	1167	1195
70°	1068	1039	1044
75°	950	898	892
80°	824	737	717
85°	676	522	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	3.5
10°-20°	329.9	10.0
20°-30°	503.5	15.3
30°-40°	607.0	18.4
40°-50°	619.0	18.8
50°-60°	529.7	16.1
60°-70°	364.9	11.1
70°-80°	187.1	5.7
80°-90°	43.5	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°	947.8	28.7
0°-40°	1554.8	47.1
0°-60°	2703.5	81.9
0°-90°	3299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1204	1202	1200	1204	1206	114
15°	1161	1160	1166	1175	1179	328
25°	1072	1076	1090	1109	1116	495
35°	946	950	970	991	1000	592
45°	783	785	804	824	828	604
55°	584	581	592	604	610	521
65°	369	360	367	369	376	367
75°	183	175	173	173	172	197
85°	44	39	34	30	26	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1207.7	1205.2	1202.7	1205.2	1207.7
5°	1204.0	1201.5	1200.2	1204.0	1206.5
7.5°	1197.7	1195.2	1195.2	1200.2	1202.7
10°	1187.7	1186.4	1188.9	1193.9	1198.9
12.5°	1175.2	1175.2	1178.9	1185.2	1190.2
15°	1161.4	1160.2	1166.4	1175.2	1178.9
17.5°	1142.6	1143.9	1152.6	1162.7	1167.7
20°	1123.9	1125.1	1133.9	1147.6	1153.9
22.5°	1100.1	1102.6	1112.6	1130.1	1136.4
25°	1072.5	1076.3	1090.1	1108.8	1116.3
27.5°	1045.0	1048.8	1063.8	1085.1	1095.1
30°	1015.0	1020.0	1035.0	1057.5	1066.3
32.5°	981.2	984.9	1003.7	1026.2	1035.0
35°	946.1	949.9	969.9	991.2	1000.0
37.5°	911.1	911.1	931.1	956.2	964.9
40°	868.5	869.8	891.1	914.9	919.9
42.5°	828.5	828.5	847.3	869.8	878.6
45°	783.4	784.7	803.5	823.5	828.5
47.5°	737.1	737.1	753.4	772.2	777.2
50°	688.3	685.8	704.6	719.6	723.4
52.5°	638.3	634.5	649.5	662.0	667.1
55°	584.5	580.7	592.0	604.5	609.5
57.5°	528.1	523.1	535.6	546.9	549.4
60°	475.6	468.1	478.1	484.3	490.6
62.5°	423.0	414.3	421.8	425.5	430.5
65°	369.2	360.4	366.7	369.2	375.5
67.5°	317.9	311.6	312.9	316.6	319.1
70°	271.6	264.1	264.1	264.1	265.3
72.5°	229.0	217.8	216.5	217.8	217.8
75°	182.7	175.2	172.7	172.7	171.5
77.5°	146.4	136.4	135.2	132.7	130.2
80°	106.4	97.6	95.1	93.9	92.6
82.5°	73.8	66.3	63.8	61.3	57.6
85°	43.8	38.8	33.8	30.0	26.3
87.5°	16.3	15.0	12.5	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)