

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: P296527

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

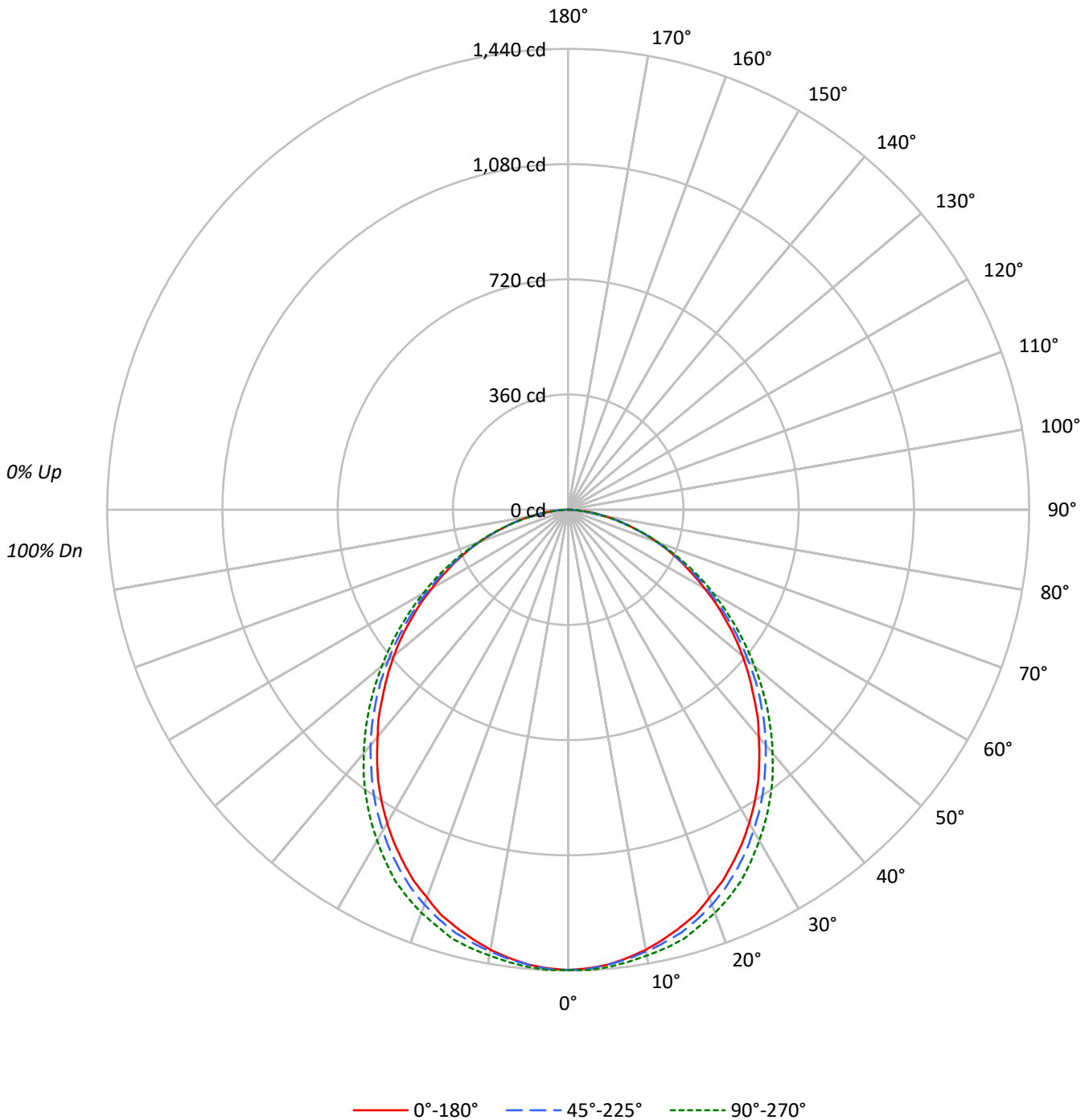
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	71									71																			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61									61																			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52									52																			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46									46																			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40									40																			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36									36																			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32									32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29									29																			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26									26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3855	3855	3875
10°	3816	3831	3865
15°	3764	3810	3870
20°	3693	3761	3838
25°	3615	3690	3797
30°	3513	3597	3710
35°	3399	3494	3613
40°	3253	3374	3489
45°	3111	3236	3346
50°	2976	3075	3180
55°	2817	2902	3004
60°	2648	2716	2814
65°	2488	2534	2614
70°	2319	2319	2363
75°	2069	2069	2069
80°	1822	1767	1767
85°	1451	1396	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.7
10°-20°	385.6	10.6
20°-30°	572.8	15.8
30°-40°	664.7	18.3
40°-50°	654.5	18.0
50°-60°	553.9	15.3
60°-70°	395.0	10.9
70°-80°	212.3	5.9
80°-90°	53.5	1.5
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°	1094.0	30.2
0°-40°	1758.7	48.5
0°-60°	2967.2	81.8
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1427	1427	1427	1433	1434	135
15°	1351	1355	1368	1380	1389	381
25°	1217	1221	1243	1266	1279	560
35°	1035	1036	1064	1089	1100	646
45°	818	823	850	870	879	632
55°	600	602	619	635	640	538
65°	391	391	398	405	411	388
75°	199	197	199	199	199	214
85°	47	45	45	42	42	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1434.4	1434.4	1436.3	1438.1	1439.9
5°	1427.2	1427.2	1427.2	1432.6	1434.4
7.5°	1412.7	1414.5	1416.4	1421.8	1425.4
10°	1396.5	1398.3	1401.9	1410.9	1414.5
12.5°	1374.7	1380.2	1385.6	1398.3	1403.7
15°	1351.2	1354.9	1367.5	1380.2	1389.2
17.5°	1325.9	1327.7	1342.2	1360.3	1363.9
20°	1289.7	1295.2	1313.2	1331.3	1340.4
22.5°	1257.2	1260.8	1280.7	1304.2	1311.4
25°	1217.4	1221.0	1242.7	1266.2	1278.9
27.5°	1175.8	1179.4	1202.9	1228.2	1237.3
30°	1130.6	1134.2	1157.7	1184.8	1193.9
32.5°	1083.5	1087.1	1112.5	1136.0	1148.6
35°	1034.7	1036.5	1063.6	1088.9	1099.8
37.5°	980.4	985.8	1011.2	1036.5	1049.2
40°	926.1	931.6	960.5	984.0	993.1
42.5°	875.5	882.7	906.2	928.0	937.0
45°	817.6	823.0	850.2	870.1	879.1
47.5°	765.2	770.6	794.1	814.0	819.4
50°	710.9	714.5	734.4	752.5	759.7
52.5°	656.6	658.4	676.5	694.6	700.0
55°	600.5	602.4	618.6	634.9	640.3
57.5°	548.1	548.1	562.6	575.2	580.7
60°	492.0	492.0	504.7	517.3	522.8
62.5°	439.6	439.6	452.2	461.3	468.5
65°	390.7	390.7	398.0	405.2	410.6
67.5°	343.7	338.3	345.5	354.5	352.7
70°	294.8	289.4	294.8	298.5	300.3
72.5°	246.0	242.4	246.0	247.8	251.4
75°	199.0	197.2	199.0	199.0	199.0
77.5°	159.2	153.8	157.4	155.6	153.8
80°	117.6	115.8	114.0	112.2	114.0
82.5°	81.4	79.6	79.6	76.0	76.0
85°	47.0	45.2	45.2	41.6	41.6
87.5°	18.1	18.1	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)