

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: P296608

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3066.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

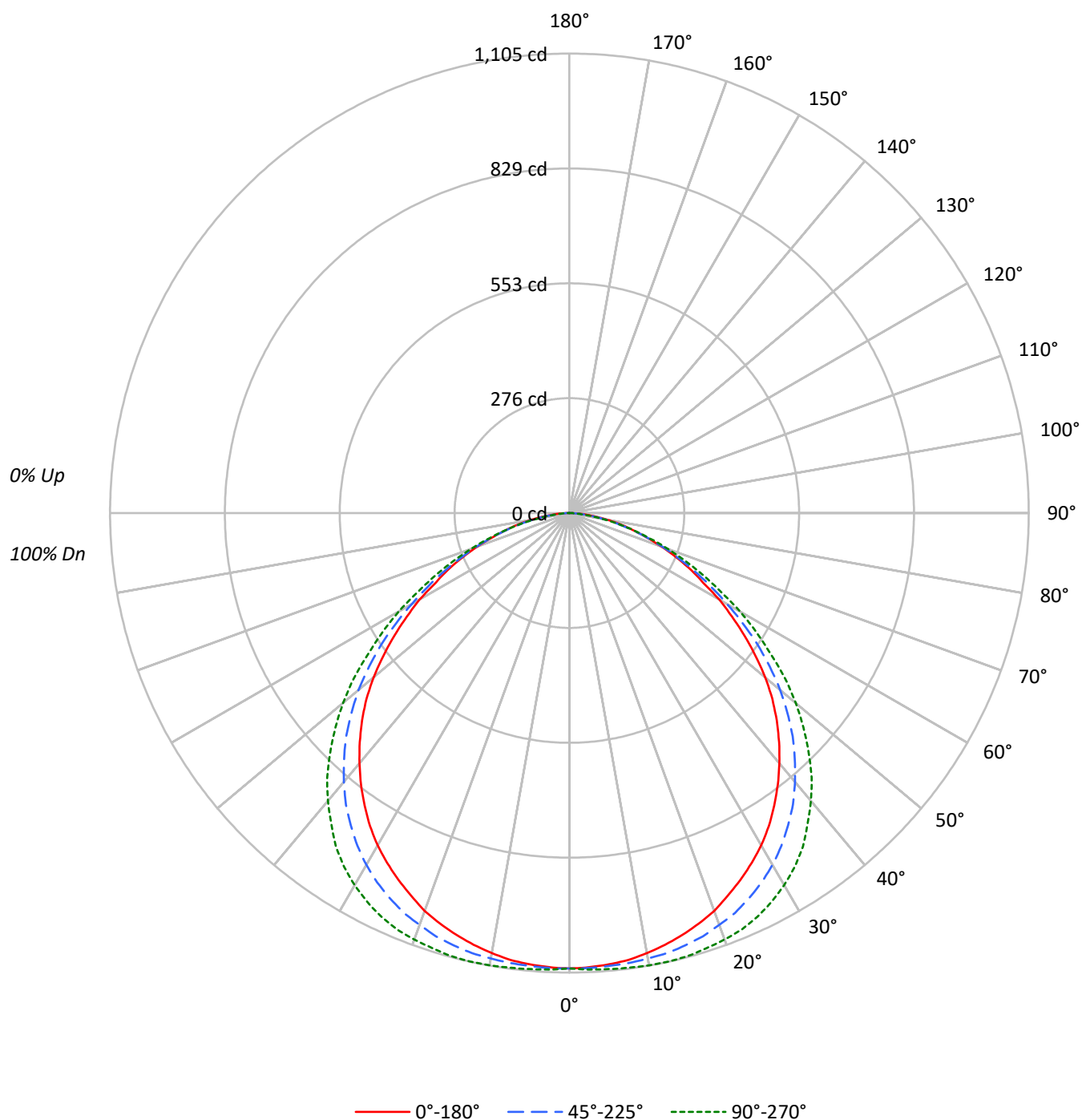
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296608

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296608

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	85	80	97	90	84	79		86	81	77			83	79	75			80
3	91	81	73	67	89	79	72	66		76	70	65			74	68	64			71
4	84	72	63	57	81	71	63	56		68	61	56			66	60	55			64
5	77	64	56	49	75	63	55	49		61	54	48			59	53	48			57
6	71	58	49	43	69	57	49	43		55	48	42			54	47	42			52
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			47
8	61	48	40	34	60	47	39	34		46	39	33			45	38	33			44
9	57	44	36	30	56	43	36	30		42	35	30			41	35	30			40
10	54	41	33	28	52	40	33	27		39	32	27			38	32	27			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2947	2947	2947
5°	2943	2953	2974
10°	2936	2972	3018
15°	2926	2999	3072
20°	2916	3018	3125
25°	2890	3034	3179
30°	2867	3036	3211
35°	2822	3012	3216
40°	2760	2964	3175
45°	2683	2890	3097
50°	2575	2771	2975
55°	2411	2595	2771
60°	2241	2362	2554
65°	2054	2125	2269
70°	1859	1888	1977
75°	1638	1599	1657
80°	1424	1308	1249
85°	1158	868	753



TEST NUMBER: P296608

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.4
10°-20°	304.1	9.9
20°-30°	471.1	15.4
30°-40°	573.4	18.7
40°-50°	584.0	19.0
50°-60°	492.5	16.1
60°-70°	333.1	10.9
70°-80°	166.5	5.4
80°-90°	37.0	1.2
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°	879.5	28.7
0°-40°	1452.9	47.4
0°-60°	2529.3	82.5
0°-90°	3066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1090	1091	1093	1099	1101	104
15°	1050	1058	1076	1095	1103	296
25°	973	988	1022	1056	1071	449
35°	859	878	917	960	979	537
45°	705	718	760	799	814	543
55°	514	521	553	580	591	460
65°	323	317	334	349	356	319
75°	158	152	154	156	159	169
85°	38	32	28	24	24	44
90°	0	0	0	0	0	



TEST NUMBER: P296608

CATALOG NUMBER: 22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1093.3	1093.3	1095.2	1097.1	1098.9
5°	1089.6	1091.4	1093.3	1098.9	1100.8
7.5°	1083.9	1085.8	1091.4	1098.9	1102.7
10°	1074.6	1078.3	1087.7	1098.9	1104.6
12.5°	1063.3	1068.9	1083.9	1097.1	1104.6
15°	1050.2	1057.7	1076.4	1095.2	1102.7
17.5°	1035.2	1044.6	1067.1	1087.7	1097.1
20°	1018.3	1029.5	1053.9	1080.2	1091.4
22.5°	995.8	1010.8	1040.8	1070.8	1083.9
25°	973.3	988.3	1022.0	1055.8	1070.8
27.5°	948.9	965.8	1001.4	1038.9	1053.9
30°	922.7	937.7	977.0	1016.4	1033.3
32.5°	892.7	907.7	948.9	990.2	1008.9
35°	858.9	877.6	917.0	960.2	978.9
37.5°	823.3	840.1	883.3	924.5	941.4
40°	785.8	802.6	843.9	887.0	903.9
42.5°	746.4	763.3	802.6	843.9	862.6
45°	705.1	718.2	759.5	798.9	813.9
47.5°	662.0	671.4	710.7	748.3	763.3
50°	615.1	624.5	662.0	695.7	710.7
52.5°	564.5	572.0	607.6	637.6	654.5
55°	513.8	521.3	553.2	579.5	590.7
57.5°	463.2	467.0	495.1	521.3	532.6
60°	416.3	416.3	438.8	459.5	474.5
62.5°	361.9	367.6	384.4	405.1	410.7
65°	322.6	316.9	333.8	348.8	356.3
67.5°	277.5	273.8	285.0	298.2	301.9
70°	236.3	230.7	240.0	247.5	251.3
72.5°	193.2	191.3	195.0	200.7	202.5
75°	157.5	151.9	153.8	155.7	159.4
77.5°	125.6	116.3	118.1	116.3	118.1
80°	91.9	84.4	84.4	82.5	80.6
82.5°	61.9	58.1	54.4	50.6	48.8
85°	37.5	31.9	28.1	24.4	24.4
87.5°	15.0	11.3	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)