

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: P296603

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296603
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-LD5-35-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

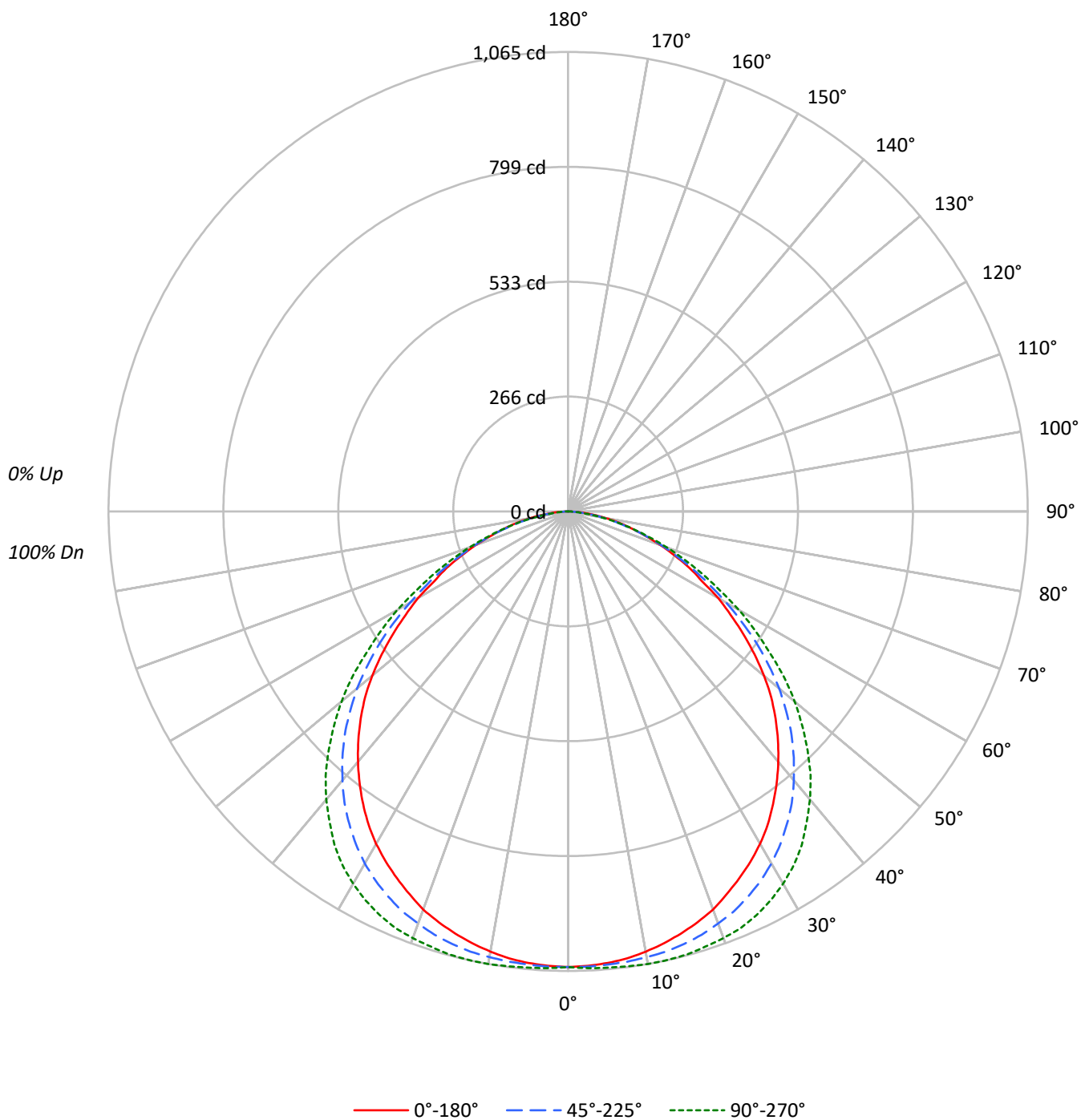
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2841	2841	2841
5°	2838	2847	2867
10°	2831	2866	2910
15°	2821	2891	2962
20°	2812	2910	3013
25°	2786	2926	3065
30°	2764	2927	3095
35°	2720	2904	3100
40°	2661	2858	3061
45°	2587	2787	2986
50°	2483	2672	2869
55°	2324	2502	2672
60°	2160	2277	2462
65°	1980	2049	2187
70°	1792	1821	1906
75°	1579	1542	1598
80°	1373	1261	1204
85°	1118	837	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.4
10°-20°	293.2	9.9
20°-30°	454.2	15.4
30°-40°	552.8	18.7
40°-50°	563.0	19.0
50°-60°	474.8	16.1
60°-70°	321.2	10.9
70°-80°	160.5	5.4
80°-90°	35.7	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°	848.0	28.7
0°-40°	1400.8	47.4
0°-60°	2438.6	82.5
0°-90°	2956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1050	1052	1054	1060	1061	100
15°	1012	1020	1038	1056	1063	286
25°	938	953	985	1018	1032	433
35°	828	846	884	926	944	518
45°	680	692	732	770	785	524
55°	495	503	533	559	570	443
65°	311	306	322	336	344	307
75°	152	146	148	150	154	163
85°	36	31	27	24	24	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1054.1	1054.1	1055.9	1057.7	1059.5
5°	1050.5	1052.3	1054.1	1059.5	1061.3
7.5°	1045.0	1046.9	1052.3	1059.5	1063.1
10°	1036.0	1039.6	1048.7	1059.5	1064.9
12.5°	1025.2	1030.6	1045.0	1057.7	1064.9
15°	1012.5	1019.7	1037.8	1055.9	1063.1
17.5°	998.0	1007.1	1028.8	1048.7	1057.7
20°	981.8	992.6	1016.1	1041.4	1052.3
22.5°	960.1	974.5	1003.5	1032.4	1045.0
25°	938.4	952.8	985.4	1017.9	1032.4
27.5°	914.9	931.1	965.5	1001.7	1016.1
30°	889.6	904.0	942.0	980.0	996.2
32.5°	860.6	875.1	914.9	954.6	972.7
35°	828.1	846.2	884.1	925.7	943.8
37.5°	793.7	810.0	851.6	891.4	907.6
40°	757.6	773.8	813.6	855.2	871.5
42.5°	719.6	735.9	773.8	813.6	831.7
45°	679.8	692.5	732.3	770.2	784.7
47.5°	638.2	647.3	685.2	721.4	735.9
50°	593.0	602.1	638.2	670.8	685.2
52.5°	544.2	551.5	585.8	614.7	631.0
55°	495.4	502.6	533.4	558.7	569.5
57.5°	446.6	450.2	477.3	502.6	513.5
60°	401.4	401.4	423.1	443.0	457.4
62.5°	349.0	354.4	370.6	390.5	396.0
65°	311.0	305.6	321.8	336.3	343.5
67.5°	267.6	264.0	274.8	287.5	291.1
70°	227.8	222.4	231.4	238.7	242.3
72.5°	186.2	184.4	188.0	193.5	195.3
75°	151.9	146.5	148.3	150.1	153.7
77.5°	121.1	112.1	113.9	112.1	113.9
80°	88.6	81.4	81.4	79.6	77.7
82.5°	59.7	56.0	52.4	48.8	47.0
85°	36.2	30.7	27.1	23.5	23.5
87.5°	14.5	10.8	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)