

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: P296558

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296558
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-L83050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

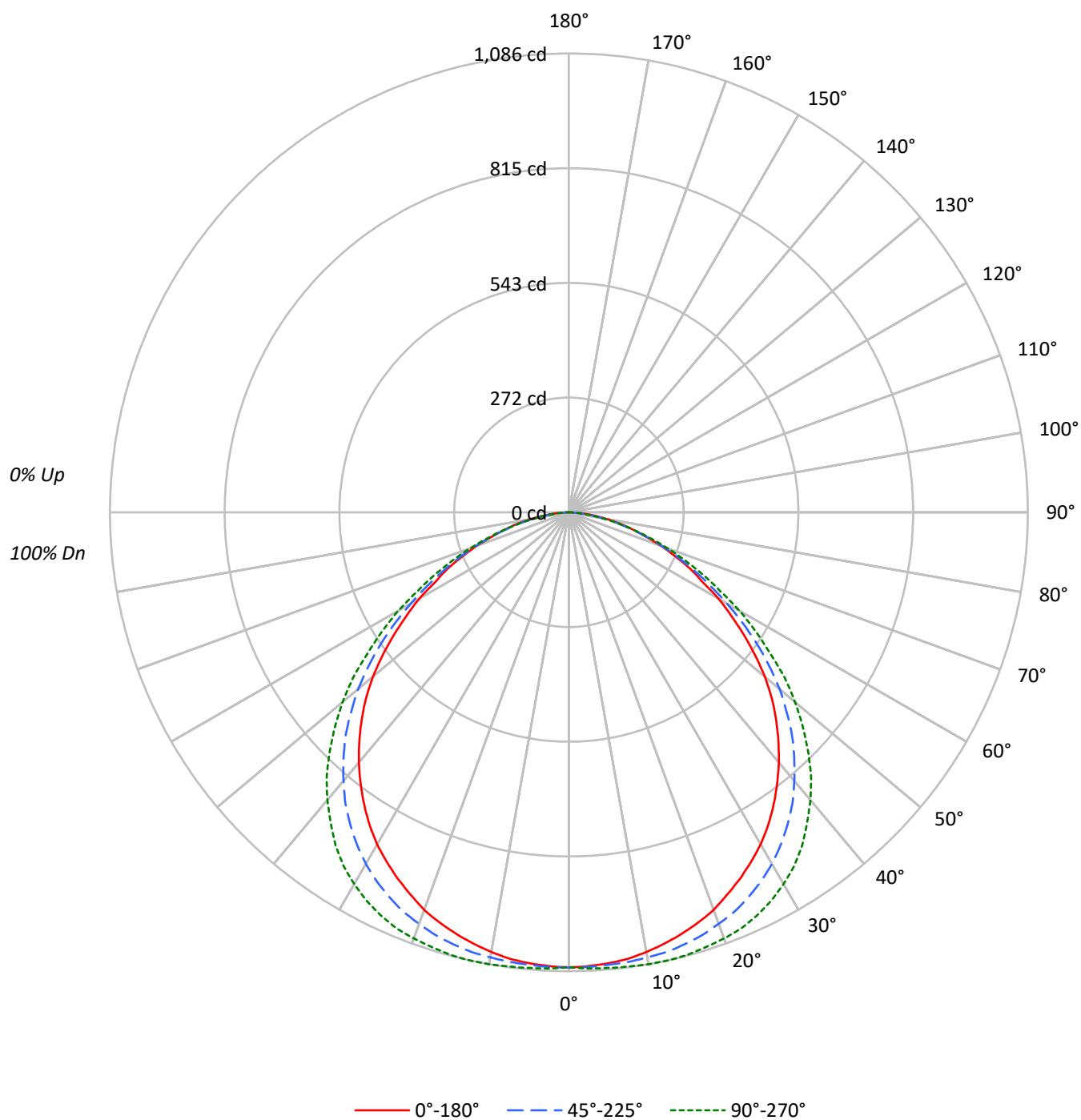
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2898	2898	2898
5°	2894	2904	2924
10°	2887	2923	2968
15°	2877	2949	3021
20°	2868	2968	3074
25°	2842	2984	3127
30°	2819	2985	3157
35°	2775	2962	3162
40°	2714	2915	3123
45°	2639	2842	3046
50°	2532	2725	2926
55°	2371	2552	2725
60°	2203	2322	2511
65°	2020	2090	2231
70°	1828	1857	1944
75°	1611	1572	1630
80°	1401	1286	1229
85°	1139	855	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.4
10°-20°	299.0	9.9
20°-30°	463.3	15.4
30°-40°	563.9	18.7
40°-50°	574.3	19.0
50°-60°	484.3	16.1
60°-70°	327.6	10.9
70°-80°	163.7	5.4
80°-90°	36.4	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°	864.9	28.7
0°-40°	1428.7	47.4
0°-60°	2487.3	82.5
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1071	1073	1075	1081	1082	102
15°	1033	1040	1058	1077	1084	292
25°	957	972	1005	1038	1053	441
35°	845	863	902	944	963	528
45°	693	706	747	786	800	534
55°	505	513	544	570	581	452
65°	317	312	328	343	350	313
75°	155	149	151	153	157	166
85°	37	31	28	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1075.1	1075.1	1077.0	1078.8	1080.7
5°	1071.4	1073.3	1075.1	1080.7	1082.5
7.5°	1065.9	1067.7	1073.3	1080.7	1084.3
10°	1056.7	1060.4	1069.6	1080.7	1086.2
12.5°	1045.6	1051.2	1065.9	1078.8	1086.2
15°	1032.7	1040.1	1058.5	1077.0	1084.3
17.5°	1018.0	1027.2	1049.3	1069.6	1078.8
20°	1001.4	1012.4	1036.4	1062.2	1073.3
22.5°	979.2	994.0	1023.5	1053.0	1065.9
25°	957.1	971.9	1005.0	1038.2	1053.0
27.5°	933.1	949.7	984.8	1021.6	1036.4
30°	907.3	922.1	960.8	999.5	1016.1
32.5°	877.8	892.6	933.1	973.7	992.1
35°	844.6	863.0	901.8	944.2	962.6
37.5°	809.6	826.2	868.6	909.2	925.8
40°	772.7	789.3	829.9	872.3	888.9
42.5°	734.0	750.6	789.3	829.9	848.3
45°	693.4	706.3	746.9	785.6	800.3
47.5°	651.0	660.2	698.9	735.8	750.6
50°	604.9	614.1	651.0	684.2	698.9
52.5°	555.1	562.5	597.5	627.0	643.6
55°	505.3	512.7	544.0	569.8	580.9
57.5°	455.5	459.2	486.8	512.7	523.7
60°	409.4	409.4	431.5	451.8	466.6
62.5°	355.9	361.4	378.0	398.3	403.9
65°	317.2	311.7	328.3	343.0	350.4
67.5°	272.9	269.2	280.3	293.2	296.9
70°	232.4	226.8	236.0	243.4	247.1
72.5°	189.9	188.1	191.8	197.3	199.2
75°	154.9	149.4	151.2	153.1	156.8
77.5°	123.6	114.3	116.2	114.3	116.2
80°	90.4	83.0	83.0	81.1	79.3
82.5°	60.9	57.2	53.5	49.8	47.9
85°	36.9	31.4	27.7	24.0	24.0
87.5°	14.8	11.1	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)