

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: P229714

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2791.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

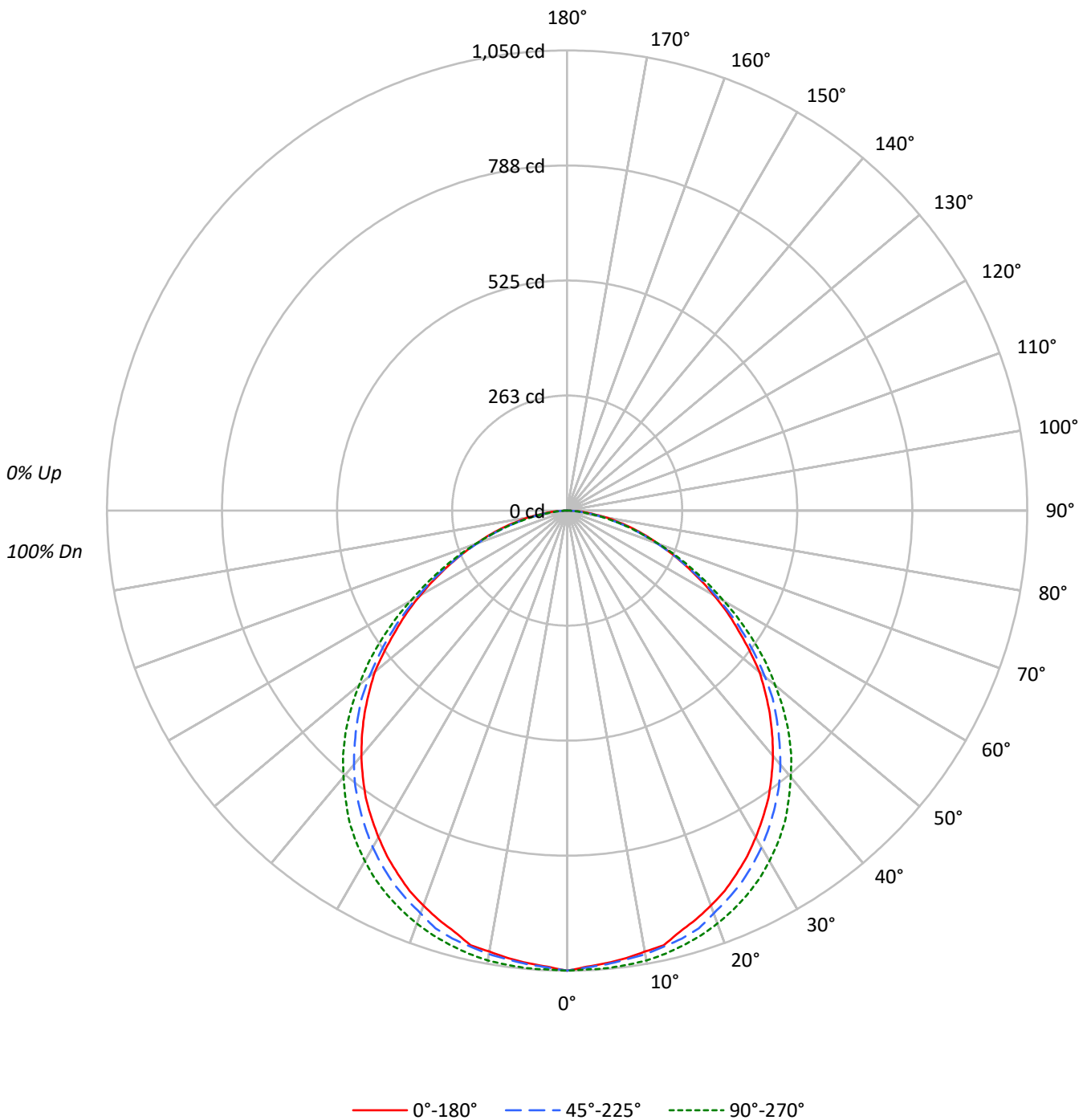
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3362	3362	3362
5°	3333	3341	3370
10°	3323	3341	3390
15°	3297	3352	3404
20°	3268	3333	3418
25°	3232	3316	3424
30°	3183	3281	3415
35°	3130	3230	3388
40°	3054	3164	3319
45°	2961	3065	3237
50°	2854	2936	3088
55°	2663	2751	2903
60°	2479	2527	2649
65°	2270	2289	2383
70°	2055	2024	2079
75°	1880	1746	1767
80°	1675	1431	1385
85°	1334	970	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	3.5
10°-20°	285.1	10.2
20°-30°	433.2	15.5
30°-40°	518.5	18.6
40°-50°	523.6	18.8
50°-60°	441.8	15.8
60°-70°	301.6	10.8
70°-80°	153.0	5.5
80°-90°	35.2	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°	817.3	29.3
0°-40°	1335.8	47.9
0°-60°	2301.2	82.4
0°-90°	2791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1037	1037	1039	1044	1048	99
15°	994	999	1011	1018	1027	281
25°	914	923	938	958	969	421
35°	801	807	826	852	867	500
45°	654	657	677	703	715	504
55°	477	476	493	511	520	428
65°	300	296	302	308	314	298
75°	152	143	141	140	143	161
85°	36	31	26	24	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.8	1049.8	1049.8	1049.8	1049.8
2.5°	1041.6	1041.6	1043.2	1049.0	1048.2
5°	1036.6	1036.6	1039.1	1044.0	1048.2
7.5°	1030.0	1030.8	1033.3	1040.7	1045.7
10°	1021.8	1022.6	1027.5	1035.0	1042.4
12.5°	1016.0	1016.8	1019.3	1028.4	1035.8
15°	994.5	998.7	1011.0	1018.5	1026.7
17.5°	978.0	983.0	999.5	1006.1	1016.0
20°	959.0	964.8	978.0	992.9	1002.8
22.5°	939.2	945.8	959.0	976.4	987.1
25°	914.5	922.7	938.4	958.2	968.9
27.5°	889.7	898.0	913.6	940.9	948.3
30°	860.8	869.9	887.2	913.6	923.5
32.5°	831.1	839.4	857.5	884.8	896.3
35°	800.6	807.2	826.2	851.7	866.6
37.5°	765.9	772.5	794.0	818.7	830.3
40°	730.4	735.4	756.8	781.6	794.0
42.5°	692.5	697.4	717.2	742.8	756.8
45°	653.7	657.0	676.8	703.2	714.7
47.5°	612.4	615.7	636.3	657.8	668.5
50°	572.8	571.1	589.3	609.1	619.8
52.5°	524.1	524.9	540.6	559.6	572.0
55°	477.0	476.2	492.7	510.9	520.0
57.5°	433.3	430.0	444.0	456.4	467.1
60°	387.1	383.8	394.5	407.7	413.5
62.5°	342.5	338.4	349.1	356.5	362.3
65°	299.6	295.5	302.1	307.8	314.5
67.5°	259.2	254.2	260.0	263.3	268.2
70°	219.5	215.4	216.2	220.4	222.0
72.5°	185.7	177.4	178.3	178.3	180.7
75°	151.9	142.8	141.1	140.3	142.8
77.5°	118.0	110.6	108.1	107.3	107.3
80°	90.8	80.9	77.6	75.1	75.1
82.5°	59.4	56.1	50.3	47.0	45.4
85°	36.3	31.4	26.4	23.9	23.1
87.5°	14.0	11.6	9.9	9.9	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)