

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: P229641

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
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-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

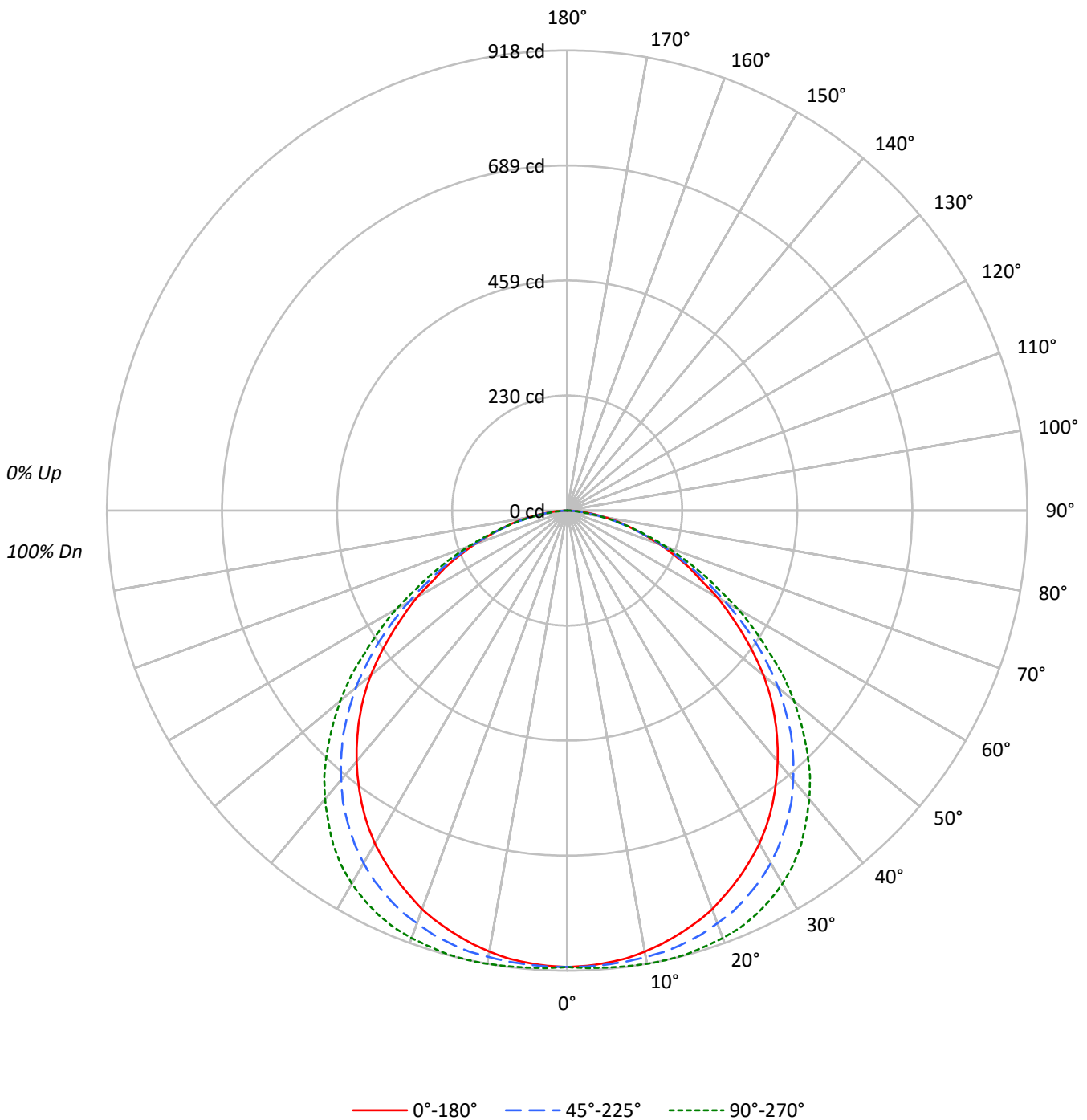
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2916	2916	2916
5°	2912	2922	2942
10°	2905	2941	2986
15°	2895	2967	3039
20°	2885	2986	3093
25°	2859	3003	3146
30°	2837	3004	3177
35°	2792	2981	3182
40°	2731	2933	3142
45°	2655	2860	3064
50°	2548	2742	2944
55°	2385	2568	2742
60°	2217	2337	2527
65°	2032	2103	2245
70°	1839	1869	1956
75°	1621	1581	1640
80°	1409	1295	1236
85°	1146	860	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.4
10°-20°	252.8	9.9
20°-30°	391.7	15.4
30°-40°	476.7	18.7
40°-50°	485.5	19.0
50°-60°	409.4	16.1
60°-70°	277.0	10.9
70°-80°	138.4	5.4
80°-90°	30.8	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°	731.2	28.7
0°-40°	1207.9	47.4
0°-60°	2102.8	82.5
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	906	907	909	914	915	86
15°	873	879	895	910	917	246
25°	809	822	850	878	890	373
35°	714	730	762	798	814	446
45°	586	597	631	664	677	451
55°	427	433	460	482	491	382
65°	268	264	278	290	296	265
75°	131	126	128	129	132	140
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.5	910.5	910.5	910.5	910.5
2.5°	909.0	909.0	910.5	912.1	913.6
5°	905.8	907.4	909.0	913.6	915.2
7.5°	901.2	902.7	907.4	913.6	916.7
10°	893.4	896.5	904.3	913.6	918.3
12.5°	884.0	888.7	901.2	912.1	918.3
15°	873.1	879.3	894.9	910.5	916.7
17.5°	860.6	868.4	887.1	904.3	912.1
20°	846.6	855.9	876.2	898.0	907.4
22.5°	827.9	840.4	865.3	890.2	901.2
25°	809.2	821.6	849.7	877.8	890.2
27.5°	788.9	802.9	832.6	863.7	876.2
30°	767.1	779.5	812.3	845.0	859.1
32.5°	742.1	754.6	788.9	823.2	838.8
35°	714.1	729.7	762.4	798.3	813.8
37.5°	684.4	698.5	734.3	768.6	782.7
40°	653.3	667.3	701.6	737.5	751.5
42.5°	620.5	634.6	667.3	701.6	717.2
45°	586.2	597.1	631.4	664.2	676.6
47.5°	550.4	558.2	590.9	622.1	634.6
50°	511.4	519.2	550.4	578.4	590.9
52.5°	469.3	475.5	505.1	530.1	544.1
55°	427.2	433.4	459.9	481.8	491.1
57.5°	385.1	388.2	411.6	433.4	442.8
60°	346.1	346.1	364.8	382.0	394.5
62.5°	300.9	305.6	319.6	336.8	341.4
65°	268.2	263.5	277.5	290.0	296.2
67.5°	230.7	227.6	237.0	247.9	251.0
70°	196.4	191.8	199.6	205.8	208.9
72.5°	160.6	159.0	162.1	166.8	168.4
75°	131.0	126.3	127.8	129.4	132.5
77.5°	104.5	96.7	98.2	96.7	98.2
80°	76.4	70.2	70.2	68.6	67.0
82.5°	51.5	48.3	45.2	42.1	40.5
85°	31.2	26.5	23.4	20.3	20.3
87.5°	12.5	9.4	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)