

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: P229712

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229712
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-LD5-31-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: 2177.0 lumens
Efficiency: N/A
Efficacy: 81.8 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

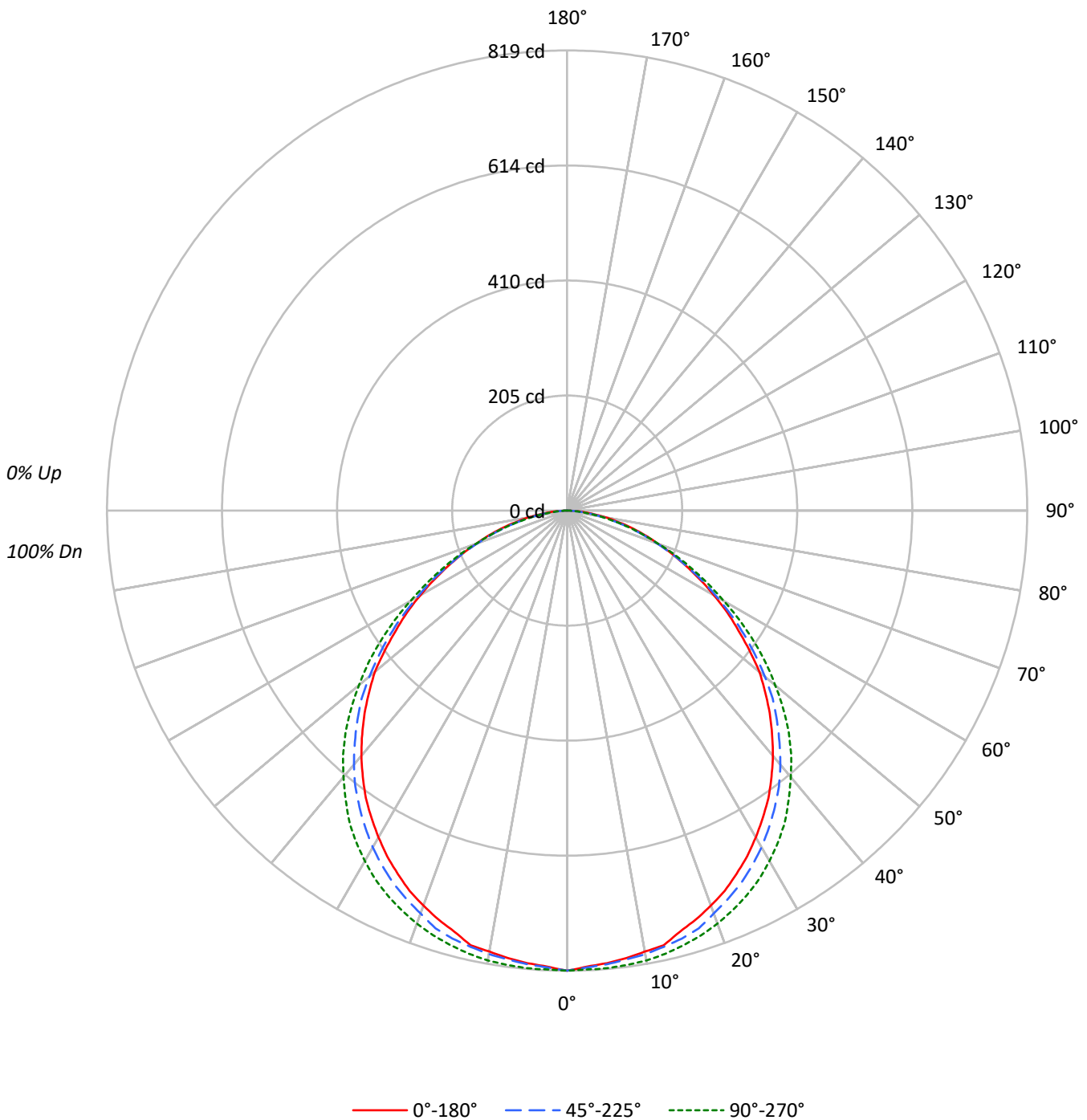
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2623	2623	2623
5°	2600	2606	2628
10°	2592	2606	2644
15°	2572	2615	2655
20°	2550	2600	2666
25°	2521	2587	2671
30°	2483	2559	2664
35°	2442	2519	2643
40°	2382	2468	2589
45°	2309	2391	2525
50°	2226	2290	2409
55°	2078	2146	2265
60°	1934	1971	2066
65°	1771	1785	1859
70°	1603	1580	1622
75°	1466	1362	1378
80°	1306	1116	1081
85°	1040	757	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.5
10°-20°	222.4	10.2
20°-30°	337.9	15.5
30°-40°	404.4	18.6
40°-50°	408.4	18.8
50°-60°	344.6	15.8
60°-70°	235.2	10.8
70°-80°	119.3	5.5
80°-90°	27.5	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°	637.5	29.3
0°-40°	1041.9	47.9
0°-60°	1794.9	82.4
0°-90°	2177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	809	809	810	814	818	77
15°	776	779	789	794	801	219
25°	713	720	732	747	756	329
35°	624	630	644	664	676	390
45°	510	512	528	548	558	393
55°	372	372	384	398	406	334
65°	234	230	236	240	245	232
75°	118	111	110	109	111	126
85°	28	24	21	19	18	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.9	818.9	818.9	818.9	818.9
2.5°	812.4	812.4	813.7	818.2	817.6
5°	808.6	808.6	810.5	814.4	817.6
7.5°	803.4	804.1	806.0	811.8	815.7
10°	797.0	797.6	801.5	807.3	813.1
12.5°	792.5	793.1	795.1	802.1	807.9
15°	775.7	779.0	788.6	794.4	800.8
17.5°	762.9	766.7	779.6	784.8	792.5
20°	748.1	752.6	762.9	774.5	782.2
22.5°	732.6	737.8	748.1	761.6	769.9
25°	713.3	719.7	732.0	747.4	755.8
27.5°	694.0	700.4	712.6	733.9	739.7
30°	671.4	678.5	692.0	712.6	720.4
32.5°	648.3	654.7	668.9	690.1	699.1
35°	624.5	629.6	644.4	664.4	676.0
37.5°	597.4	602.6	619.3	638.6	647.6
40°	569.7	573.6	590.3	609.6	619.3
42.5°	540.1	544.0	559.4	579.4	590.3
45°	509.9	512.4	527.9	548.5	557.5
47.5°	477.7	480.2	496.3	513.1	521.5
50°	446.8	445.5	459.6	475.1	483.5
52.5°	408.8	409.4	421.7	436.5	446.1
55°	372.1	371.5	384.3	398.5	405.6
57.5°	338.0	335.4	346.3	356.0	364.4
60°	301.9	299.4	307.7	318.0	322.5
62.5°	267.2	263.9	272.3	278.1	282.6
65°	233.7	230.5	235.6	240.1	245.3
67.5°	202.1	198.3	202.8	205.4	209.2
70°	171.2	168.0	168.7	171.9	173.2
72.5°	144.8	138.4	139.1	139.1	141.0
75°	118.5	111.4	110.1	109.4	111.4
77.5°	92.1	86.3	84.3	83.7	83.7
80°	70.8	63.1	60.5	58.6	58.6
82.5°	46.4	43.8	39.3	36.7	35.4
85°	28.3	24.5	20.6	18.7	18.0
87.5°	10.9	9.0	7.7	7.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)