

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: P229508

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L940-CD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH RDP LENS
Light Source: (112)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1984.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

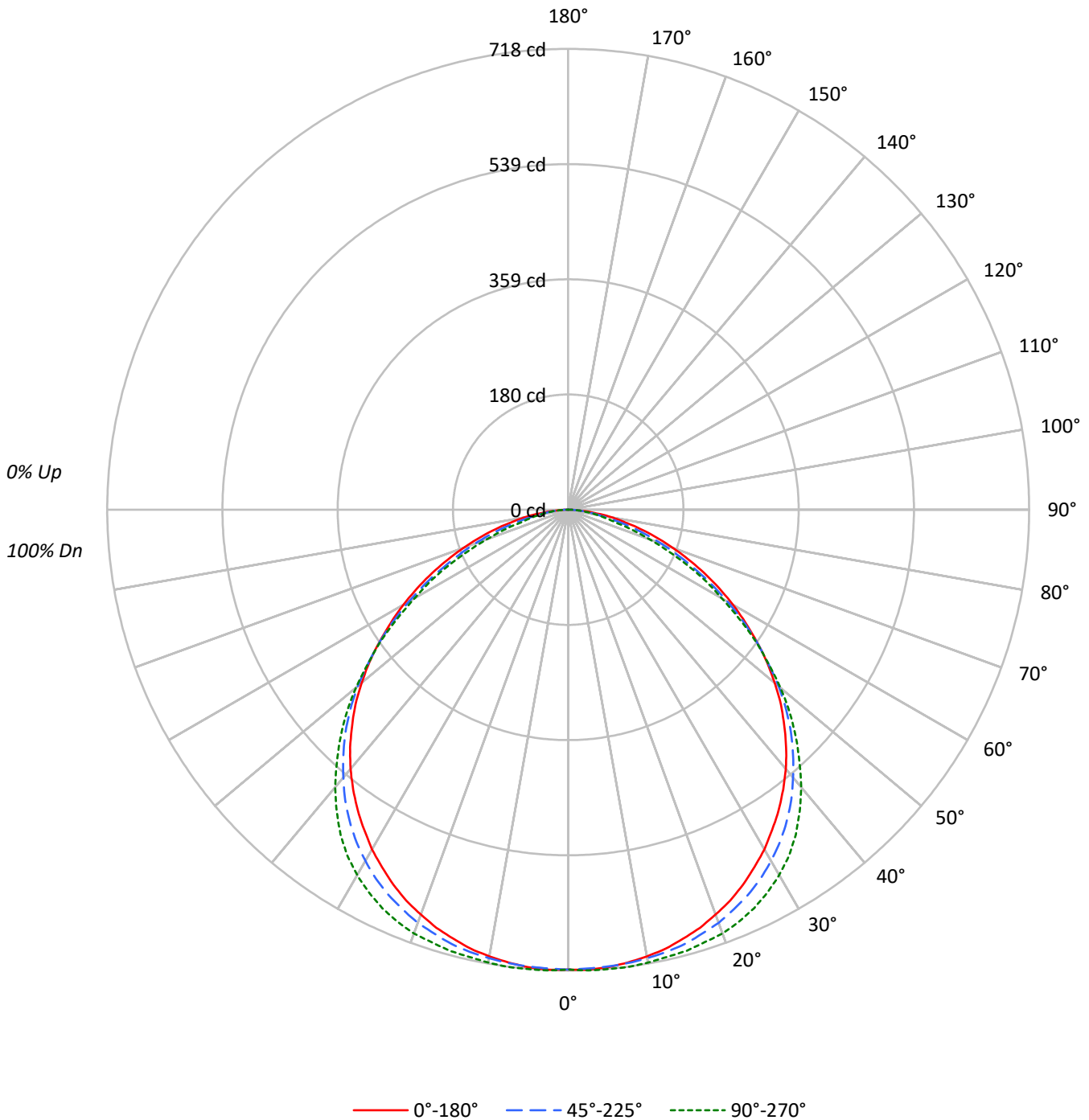
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2414	2414	2414
5°	2420	2417	2430
10°	2418	2428	2452
15°	2414	2444	2482
20°	2407	2456	2520
25°	2396	2462	2547
30°	2377	2458	2558
35°	2351	2441	2542
40°	2319	2397	2484
45°	2268	2339	2390
50°	2201	2242	2263
55°	2107	2102	2090
60°	2000	1933	1860
65°	1863	1729	1634
70°	1699	1514	1320
75°	1527	1258	988
80°	1358	918	860
85°	1067	762	762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.4
10°-20°	198.2	10.0
20°-30°	305.9	15.4
30°-40°	371.0	18.7
40°-50°	376.7	19.0
50°-60°	318.7	16.1
60°-70°	215.6	10.9
70°-80°	104.3	5.3
80°-90°	25.4	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°	572.3	28.8
0°-40°	943.3	47.5
0°-60°	1638.7	82.6
0°-90°	1984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	716	716	714	718	718	68
15°	692	696	701	709	712	195
25°	644	650	662	679	685	297
35°	572	578	593	612	618	357
45°	476	477	491	501	502	367
55°	359	356	358	358	356	321
65°	234	224	217	208	205	232
75°	117	108	97	84	76	125
85°	28	22	20	20	20	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716.5	716.5	716.5	716.5	716.5
2.5°	717.5	717.5	715.5	717.5	718.5
5°	715.5	715.5	714.5	717.5	718.5
7.5°	711.6	712.6	712.6	716.5	718.5
10°	706.6	708.6	709.6	715.5	716.5
12.5°	700.7	702.7	705.7	712.6	713.5
15°	691.9	695.8	700.7	708.6	711.6
17.5°	683.0	686.9	692.8	703.7	706.6
20°	671.2	676.1	685.0	697.8	702.7
22.5°	659.3	663.3	674.1	689.9	694.8
25°	644.5	649.5	662.3	679.0	685.0
27.5°	627.8	634.7	648.5	666.2	672.1
30°	611.0	617.0	631.7	651.4	657.4
32.5°	591.3	597.2	614.0	632.7	639.6
35°	571.6	577.5	593.3	612.0	617.9
37.5°	549.9	553.9	570.6	586.4	592.3
40°	527.3	530.2	545.0	560.8	564.7
42.5°	502.6	504.6	518.4	532.2	533.2
45°	476.0	477.0	490.8	500.7	501.6
47.5°	449.4	448.4	460.3	467.2	468.1
50°	419.8	419.8	427.7	431.7	431.7
52.5°	390.3	388.3	392.2	395.2	392.2
55°	358.7	355.8	357.8	357.8	355.8
57.5°	327.2	321.3	322.3	320.3	315.4
60°	296.7	289.8	286.8	279.9	276.0
62.5°	265.1	257.2	251.3	243.4	242.4
65°	233.6	223.7	216.8	208.0	205.0
67.5°	203.0	194.2	184.3	174.4	168.5
70°	172.5	162.6	153.7	140.9	134.0
72.5°	144.9	136.0	125.2	110.4	105.5
75°	117.3	108.4	96.6	83.8	75.9
77.5°	90.7	83.8	71.0	60.1	59.1
80°	70.0	62.1	47.3	44.3	44.3
82.5°	45.3	40.4	33.5	31.5	31.5
85°	27.6	21.7	19.7	19.7	19.7
87.5°	10.8	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)