

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: P296663

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296663
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-LD5-20-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

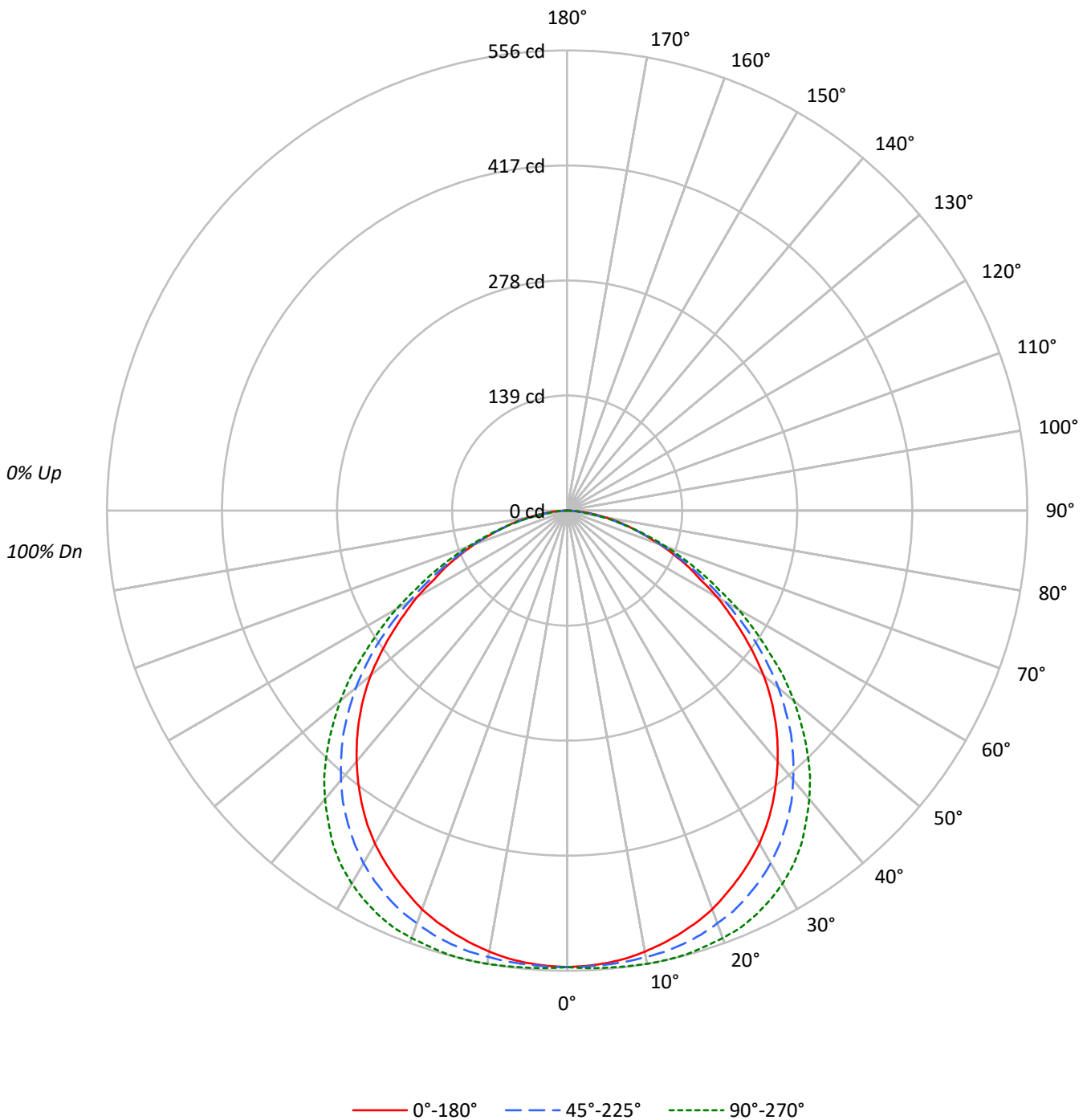
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1484	1484	1484
5°	1482	1487	1498
10°	1479	1497	1520
15°	1473	1510	1547
20°	1468	1520	1574
25°	1455	1528	1601
30°	1444	1529	1617
35°	1421	1517	1620
40°	1390	1493	1599
45°	1351	1456	1560
50°	1297	1396	1498
55°	1214	1307	1396
60°	1129	1189	1286
65°	1034	1070	1142
70°	936	951	995
75°	824	805	835
80°	717	659	629
85°	584	438	380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.4
10°-20°	153.1	9.9
20°-30°	237.3	15.4
30°-40°	288.8	18.7
40°-50°	294.1	19.0
50°-60°	248.0	16.1
60°-70°	167.8	10.9
70°-80°	83.8	5.4
80°-90°	18.7	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°	442.9	28.7
0°-40°	731.7	47.4
0°-60°	1273.8	82.5
0°-90°	1544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	549	550	551	553	554	52
15°	529	533	542	552	555	149
25°	490	498	515	532	539	226
35°	432	442	462	484	493	270
45°	355	362	382	402	410	273
55°	259	262	279	292	298	232
65°	162	160	168	176	179	160
75°	79	76	77	78	80	85
85°	19	16	14	12	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.5	551.5	551.5	551.5	551.5
2.5°	550.6	550.6	551.5	552.5	553.4
5°	548.7	549.6	550.6	553.4	554.4
7.5°	545.9	546.8	549.6	553.4	555.3
10°	541.1	543.0	547.7	553.4	556.2
12.5°	535.5	538.3	545.9	552.5	556.2
15°	528.9	532.6	542.1	551.5	555.3
17.5°	521.3	526.0	537.4	547.7	552.5
20°	512.8	518.5	530.7	544.0	549.6
22.5°	501.5	509.0	524.1	539.2	545.9
25°	490.1	497.7	514.7	531.7	539.2
27.5°	477.9	486.4	504.3	523.2	530.7
30°	464.6	472.2	492.0	511.9	520.4
32.5°	449.5	457.1	477.9	498.6	508.1
35°	432.5	442.0	461.8	483.5	493.0
37.5°	414.6	423.1	444.8	465.6	474.1
40°	395.7	404.2	425.0	446.7	455.2
42.5°	375.9	384.4	404.2	425.0	434.4
45°	355.1	361.7	382.5	402.3	409.9
47.5°	333.4	338.1	357.9	376.8	384.4
50°	309.8	314.5	333.4	350.4	357.9
52.5°	284.3	288.0	306.0	321.1	329.6
55°	258.8	262.5	278.6	291.8	297.5
57.5°	233.3	235.2	249.3	262.5	268.2
60°	209.7	209.7	221.0	231.4	238.9
62.5°	182.3	185.1	193.6	204.0	206.8
65°	162.4	159.6	168.1	175.7	179.4
67.5°	139.8	137.9	143.5	150.2	152.0
70°	119.0	116.2	120.9	124.7	126.5
72.5°	97.3	96.3	98.2	101.0	102.0
75°	79.3	76.5	77.4	78.4	80.3
77.5°	63.3	58.6	59.5	58.6	59.5
80°	46.3	42.5	42.5	41.6	40.6
82.5°	31.2	29.3	27.4	25.5	24.6
85°	18.9	16.1	14.2	12.3	12.3
87.5°	7.6	5.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)