

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: P296596

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296596
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-LD5-31-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2659.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

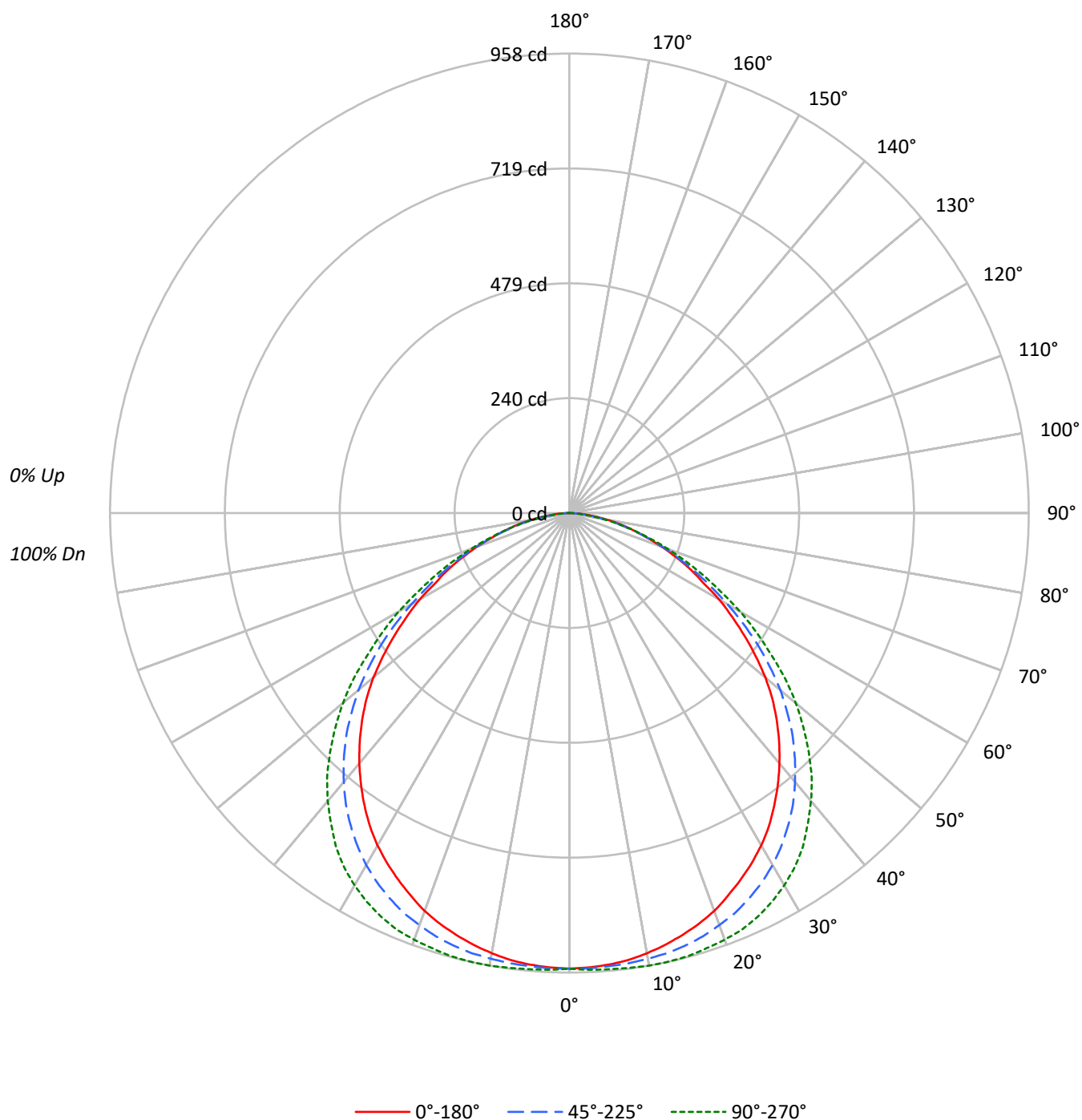
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2556	2556	2556
5°	2552	2561	2579
10°	2546	2578	2617
15°	2537	2601	2664
20°	2529	2617	2711
25°	2506	2632	2757
30°	2486	2633	2784
35°	2447	2613	2789
40°	2394	2571	2754
45°	2327	2507	2686
50°	2233	2403	2581
55°	2091	2251	2403
60°	1943	2048	2215
65°	1781	1843	1968
70°	1612	1638	1714
75°	1420	1387	1437
80°	1235	1134	1083
85°	1003	753	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.4
10°-20°	263.7	9.9
20°-30°	408.6	15.4
30°-40°	497.3	18.7
40°-50°	506.5	19.0
50°-60°	427.1	16.1
60°-70°	288.9	10.9
70°-80°	144.4	5.4
80°-90°	32.1	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°	762.8	28.7
0°-40°	1260.0	47.4
0°-60°	2193.6	82.5
0°-90°	2659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	945	947	948	953	955	90
15°	911	917	934	950	956	257
25°	844	857	886	916	929	389
35°	745	761	795	833	849	466
45°	612	623	659	693	706	471
55°	446	452	480	503	512	399
65°	280	275	290	302	309	276
75°	137	132	133	135	138	146
85°	32	28	24	21	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.8	949.8	949.8	949.8	949.8
2.5°	948.2	948.2	949.8	951.4	953.1
5°	944.9	946.6	948.2	953.1	954.7
7.5°	940.0	941.7	946.6	953.1	956.3
10°	931.9	935.2	943.3	953.1	957.9
12.5°	922.2	927.0	940.0	951.4	957.9
15°	910.8	917.3	933.5	949.8	956.3
17.5°	897.8	905.9	925.4	943.3	951.4
20°	883.1	892.9	914.0	936.8	946.6
22.5°	863.6	876.6	902.6	928.7	940.0
25°	844.1	857.1	886.4	915.6	928.7
27.5°	822.9	837.6	868.5	901.0	914.0
30°	800.2	813.2	847.3	881.5	896.1
32.5°	774.2	787.2	822.9	858.7	875.0
35°	744.9	761.1	795.3	832.7	849.0
37.5°	714.0	728.6	766.0	801.8	816.4
40°	681.5	696.1	731.9	769.3	783.9
42.5°	647.3	661.9	696.1	731.9	748.1
45°	611.5	622.9	658.7	692.8	705.8
47.5°	574.1	582.2	616.4	648.9	661.9
50°	533.5	541.6	574.1	603.4	616.4
52.5°	489.5	496.0	526.9	553.0	567.6
55°	445.6	452.1	479.8	502.6	512.3
57.5°	401.7	405.0	429.4	452.1	461.9
60°	361.1	361.1	380.6	398.5	411.5
62.5°	313.9	318.8	333.4	351.3	356.2
65°	279.7	274.9	289.5	302.5	309.0
67.5°	240.7	237.5	247.2	258.6	261.8
70°	204.9	200.0	208.2	214.7	217.9
72.5°	167.5	165.9	169.1	174.0	175.6
75°	136.6	131.7	133.4	135.0	138.2
77.5°	109.0	100.8	102.5	100.8	102.5
80°	79.7	73.2	73.2	71.6	69.9
82.5°	53.7	50.4	47.2	43.9	42.3
85°	32.5	27.6	24.4	21.1	21.1
87.5°	13.0	9.8	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)