

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: P296600

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296600
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-LD5-35-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

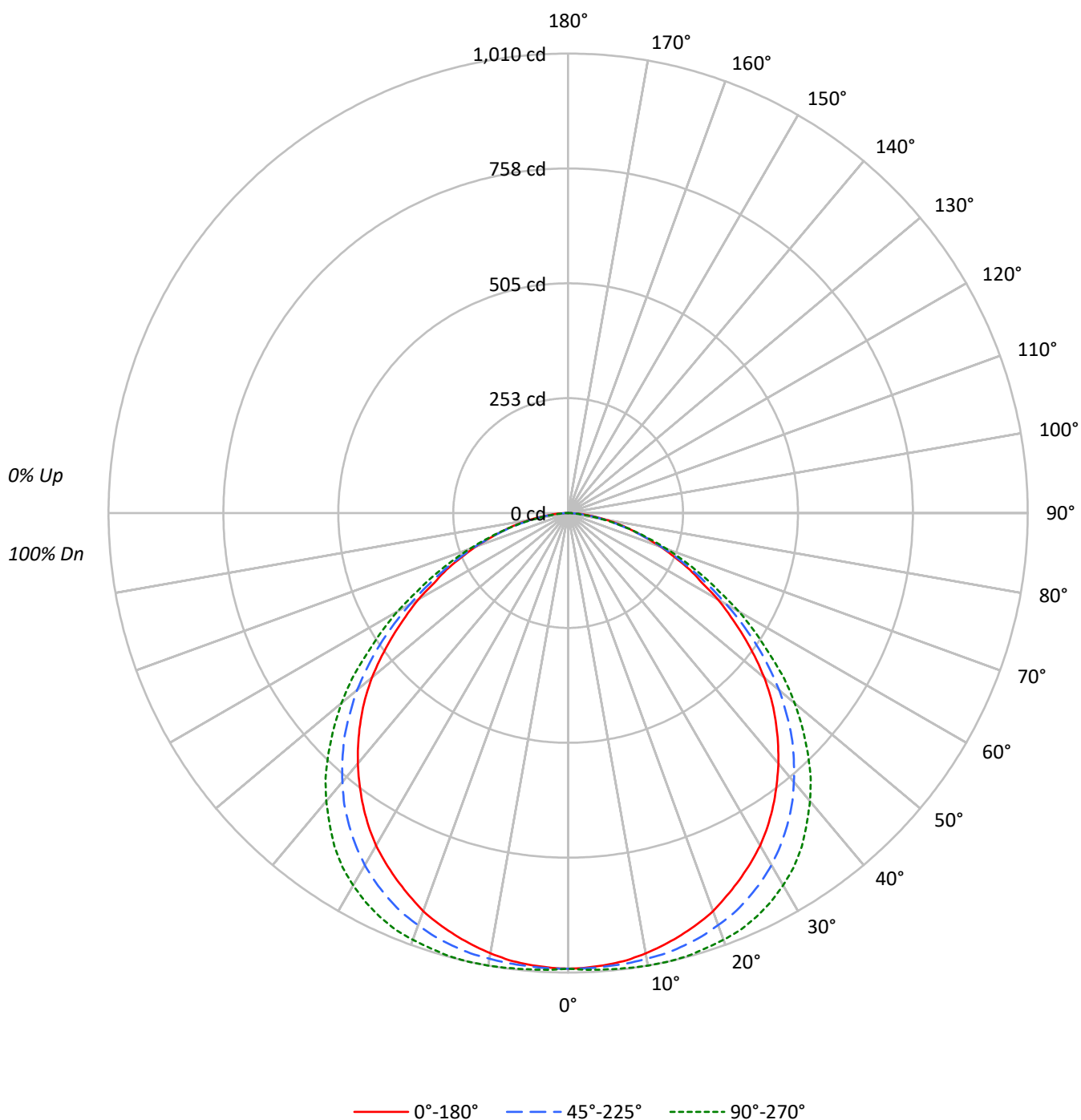
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2695	2695	2695
5°	2692	2701	2719
10°	2685	2718	2760
15°	2676	2742	2810
20°	2667	2760	2859
25°	2643	2775	2908
30°	2622	2776	2936
35°	2580	2755	2941
40°	2524	2711	2904
45°	2454	2643	2833
50°	2355	2534	2721
55°	2205	2373	2534
60°	2049	2160	2335
65°	1878	1944	2075
70°	1700	1727	1808
75°	1498	1462	1516
80°	1302	1196	1142
85°	1059	794	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.4
10°-20°	278.1	9.9
20°-30°	430.9	15.4
30°-40°	524.4	18.7
40°-50°	534.1	19.0
50°-60°	450.4	16.1
60°-70°	304.7	10.9
70°-80°	152.2	5.4
80°-90°	33.9	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°	804.3	28.7
0°-40°	1328.7	47.4
0°-60°	2313.2	82.5
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	996	998	1000	1005	1007	95
15°	960	967	984	1002	1008	271
25°	890	904	935	966	979	410
35°	786	803	839	878	895	491
45°	645	657	695	731	744	497
55°	470	477	506	530	540	420
65°	295	290	305	319	326	291
75°	144	139	141	142	146	154
85°	34	29	26	22	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	999.9	999.9	1001.6	1003.3	1005.0
5°	996.5	998.2	999.9	1005.0	1006.7
7.5°	991.3	993.0	998.2	1005.0	1008.5
10°	982.7	986.2	994.7	1005.0	1010.2
12.5°	972.4	977.6	991.3	1003.3	1010.2
15°	960.4	967.3	984.4	1001.6	1008.5
17.5°	946.7	955.3	975.9	994.7	1003.3
20°	931.3	941.6	963.9	987.9	998.2
22.5°	910.7	924.4	951.9	979.3	991.3
25°	890.1	903.8	934.7	965.6	979.3
27.5°	867.8	883.3	915.8	950.1	963.9
30°	843.8	857.5	893.5	929.6	945.0
32.5°	816.4	830.1	867.8	905.6	922.7
35°	785.5	802.7	838.7	878.1	895.3
37.5°	752.9	768.3	807.8	845.5	861.0
40°	718.6	734.0	771.8	811.2	826.7
42.5°	682.6	698.0	734.0	771.8	788.9
45°	644.9	656.9	694.6	730.6	744.3
47.5°	605.4	614.0	650.0	684.3	698.0
50°	562.5	571.1	605.4	636.3	650.0
52.5°	516.2	523.1	555.7	583.1	598.6
55°	469.9	476.8	505.9	530.0	540.2
57.5°	423.6	427.1	452.8	476.8	487.1
60°	380.7	380.7	401.3	420.2	433.9
62.5°	331.0	336.2	351.6	370.5	375.6
65°	295.0	289.8	305.3	319.0	325.9
67.5°	253.8	250.4	260.7	272.7	276.1
70°	216.1	211.0	219.5	226.4	229.8
72.5°	176.7	174.9	178.4	183.5	185.2
75°	144.1	138.9	140.6	142.4	145.8
77.5°	114.9	106.3	108.0	106.3	108.0
80°	84.0	77.2	77.2	75.5	73.7
82.5°	56.6	53.2	49.7	46.3	44.6
85°	34.3	29.2	25.7	22.3	22.3
87.5°	13.7	10.3	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)