

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: P296683

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296683  
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-L92765-W2A1-U-3000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2339.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

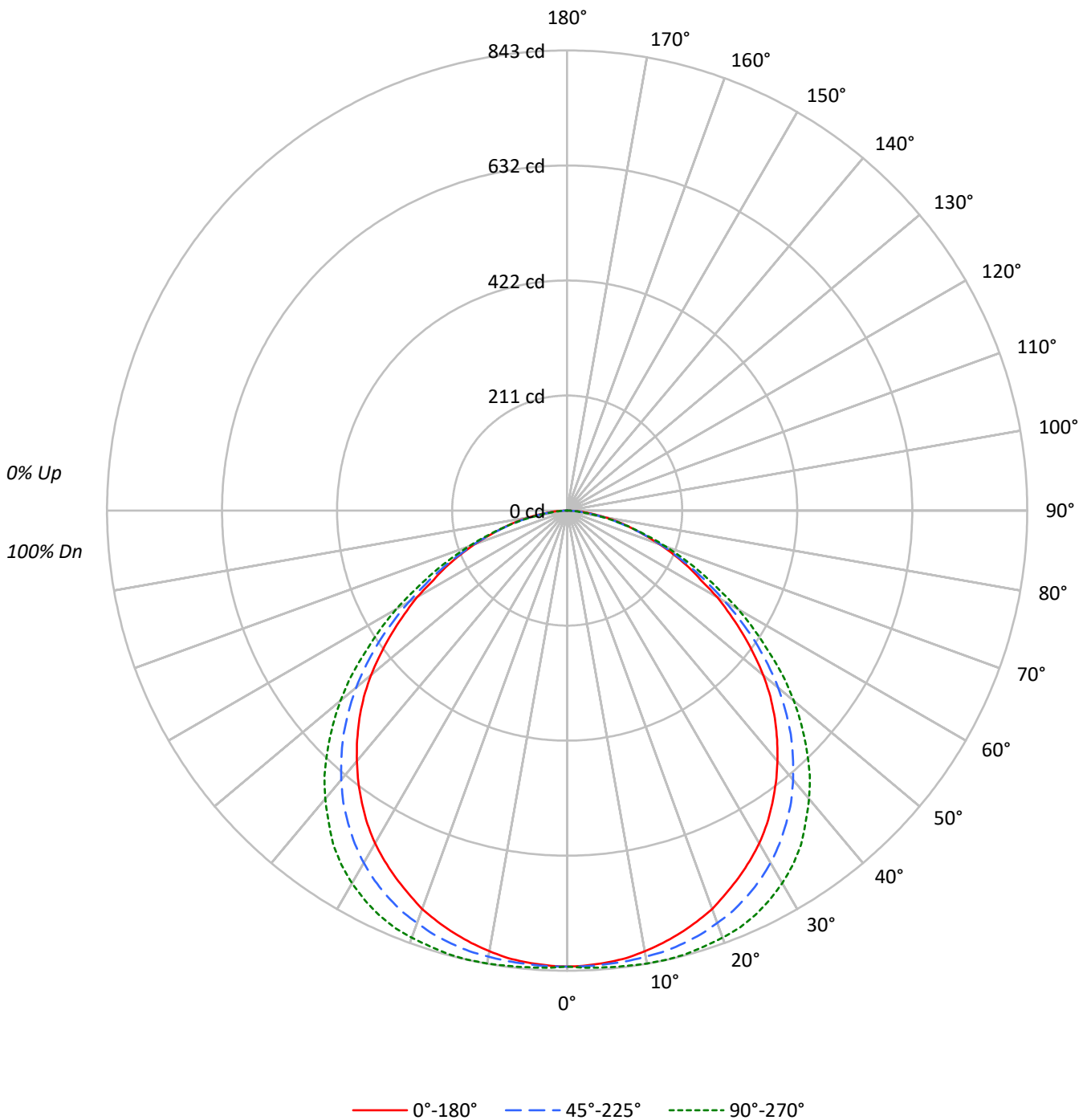
Input Watts (W): 27.621  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2248	2248	2248
5°	2245	2253	2269
10°	2240	2267	2303
15°	2232	2288	2344
20°	2225	2302	2384
25°	2205	2315	2426
30°	2187	2316	2449
35°	2152	2298	2453
40°	2106	2262	2422
45°	2047	2205	2363
50°	1965	2114	2270
55°	1839	1980	2114
60°	1709	1802	1948
65°	1567	1622	1731
70°	1419	1441	1508
75°	1250	1220	1264
80°	1086	998	953
85°	883	664	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.4
10°-20°	232.0	9.9
20°-30°	359.4	15.4
30°-40°	437.4	18.7
40°-50°	445.5	19.0
50°-60°	375.7	16.1
60°-70°	254.2	10.9
70°-80°	127.0	5.4
80°-90°	28.3	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°	671.0	28.7
0°-40°	1108.4	47.4
0°-60°	1929.6	82.5
0°-90°	2339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	831	833	834	838	840	79
15°	801	807	821	836	841	226
25°	742	754	780	806	817	342
35°	655	670	700	732	747	410
45°	538	548	579	610	621	414
55°	392	398	422	442	451	351
65°	246	242	255	266	272	243
75°	120	116	117	119	122	129
85°	29	24	22	19	19	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	835.5	835.5	835.5	835.5	835.5
2.5°	834.1	834.1	835.5	836.9	838.4
5°	831.2	832.6	834.1	838.4	839.8
7.5°	826.9	828.3	832.6	838.4	841.2
10°	819.8	822.6	829.8	838.4	842.7
12.5°	811.2	815.5	826.9	836.9	842.7
15°	801.2	806.9	821.2	835.5	841.2
17.5°	789.7	796.9	814.0	829.8	836.9
20°	776.8	785.4	804.0	824.1	832.6
22.5°	759.7	771.1	794.0	816.9	826.9
25°	742.5	754.0	779.7	805.5	816.9
27.5°	723.9	736.8	764.0	792.6	804.0
30°	703.9	715.3	745.4	775.4	788.3
32.5°	681.0	692.4	723.9	755.4	769.7
35°	655.2	669.5	699.6	732.5	746.8
37.5°	628.1	640.9	673.8	705.3	718.2
40°	599.4	612.3	643.8	676.7	689.6
42.5°	569.4	582.3	612.3	643.8	658.1
45°	537.9	547.9	579.4	609.5	620.9
47.5°	505.0	512.2	542.2	570.8	582.3
50°	469.3	476.4	505.0	530.8	542.2
52.5°	430.6	436.3	463.5	486.4	499.3
55°	392.0	397.7	422.0	442.1	450.7
57.5°	353.4	356.2	377.7	397.7	406.3
60°	317.6	317.6	334.8	350.5	362.0
62.5°	276.1	280.4	293.3	309.0	313.3
65°	246.1	241.8	254.7	266.1	271.8
67.5°	211.7	208.9	217.5	227.5	230.3
70°	180.3	176.0	183.1	188.8	191.7
72.5°	147.4	145.9	148.8	153.1	154.5
75°	120.2	115.9	117.3	118.7	121.6
77.5°	95.9	88.7	90.1	88.7	90.1
80°	70.1	64.4	64.4	62.9	61.5
82.5°	47.2	44.4	41.5	38.6	37.2
85°	28.6	24.3	21.5	18.6	18.6
87.5°	11.4	8.6	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)