

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: P295713

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
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-L82765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

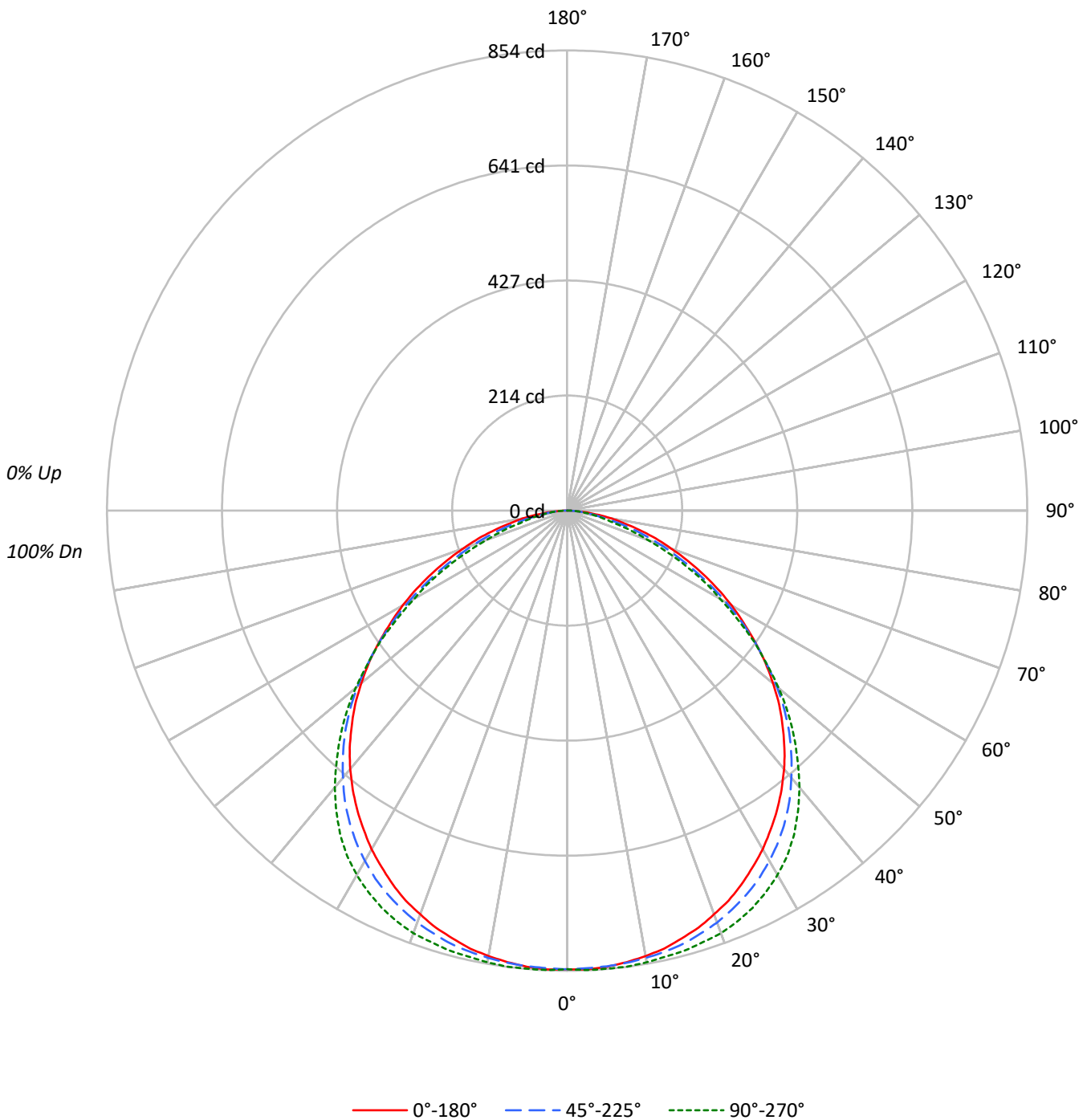
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2291	2291	2291
5°	2296	2293	2306
10°	2294	2303	2326
15°	2290	2319	2355
20°	2283	2330	2391
25°	2273	2336	2416
30°	2256	2332	2426
35°	2231	2315	2412
40°	2200	2275	2357
45°	2152	2219	2268
50°	2088	2127	2147
55°	2000	1994	1983
60°	1897	1834	1764
65°	1767	1640	1550
70°	1612	1437	1253
75°	1448	1193	938
80°	1288	871	817
85°	1013	722	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.4
10°-20°	235.5	10.0
20°-30°	363.4	15.4
30°-40°	440.8	18.7
40°-50°	447.5	19.0
50°-60°	378.6	16.1
60°-70°	256.1	10.9
70°-80°	123.8	5.3
80°-90°	30.2	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°	679.9	28.8
0°-40°	1120.7	47.5
0°-60°	1946.8	82.6
0°-90°	2357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	850	850	849	852	854	81
15°	822	827	832	842	845	232
25°	766	772	787	807	814	353
35°	679	686	705	727	734	425
45°	566	567	583	595	596	436
55°	426	423	425	425	423	381
65°	278	266	258	247	244	275
75°	139	129	115	100	90	148
85°	33	26	23	23	23	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.2	851.2	851.2	851.2	851.2
2.5°	852.4	852.4	850.0	852.4	853.5
5°	850.0	850.0	848.9	852.4	853.5
7.5°	845.3	846.5	846.5	851.2	853.5
10°	839.5	841.8	843.0	850.0	851.2
12.5°	832.5	834.8	838.3	846.5	847.7
15°	821.9	826.6	832.5	841.8	845.3
17.5°	811.4	816.1	823.1	836.0	839.5
20°	797.3	803.2	813.7	829.0	834.8
22.5°	783.3	788.0	800.9	819.6	825.4
25°	765.7	771.6	786.8	806.7	813.7
27.5°	745.8	754.0	770.4	791.5	798.5
30°	725.9	732.9	750.5	773.9	780.9
32.5°	702.5	709.5	729.4	751.7	759.9
35°	679.1	686.1	704.8	727.1	734.1
37.5°	653.3	658.0	677.9	696.6	703.7
40°	626.4	629.9	647.5	666.2	670.9
42.5°	597.1	599.5	615.9	632.3	633.4
45°	565.5	566.7	583.1	594.8	596.0
47.5°	533.9	532.7	546.8	555.0	556.1
50°	498.8	498.8	508.1	512.8	512.8
52.5°	463.7	461.3	466.0	469.5	466.0
55°	426.2	422.7	425.0	425.0	422.7
57.5°	388.7	381.7	382.9	380.5	374.7
60°	352.4	344.2	340.7	332.5	327.8
62.5°	315.0	305.6	298.6	289.2	288.0
65°	277.5	265.8	257.6	247.0	243.5
67.5°	241.2	230.7	218.9	207.2	200.2
70°	204.9	193.2	182.7	167.4	159.2
72.5°	172.1	161.6	148.7	131.1	125.3
75°	139.3	128.8	114.7	99.5	90.2
77.5°	107.7	99.5	84.3	71.4	70.3
80°	83.1	73.8	56.2	52.7	52.7
82.5°	53.9	48.0	39.8	37.5	37.5
85°	32.8	25.8	23.4	23.4	23.4
87.5°	12.9	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)