

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: P296243

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-RDP-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

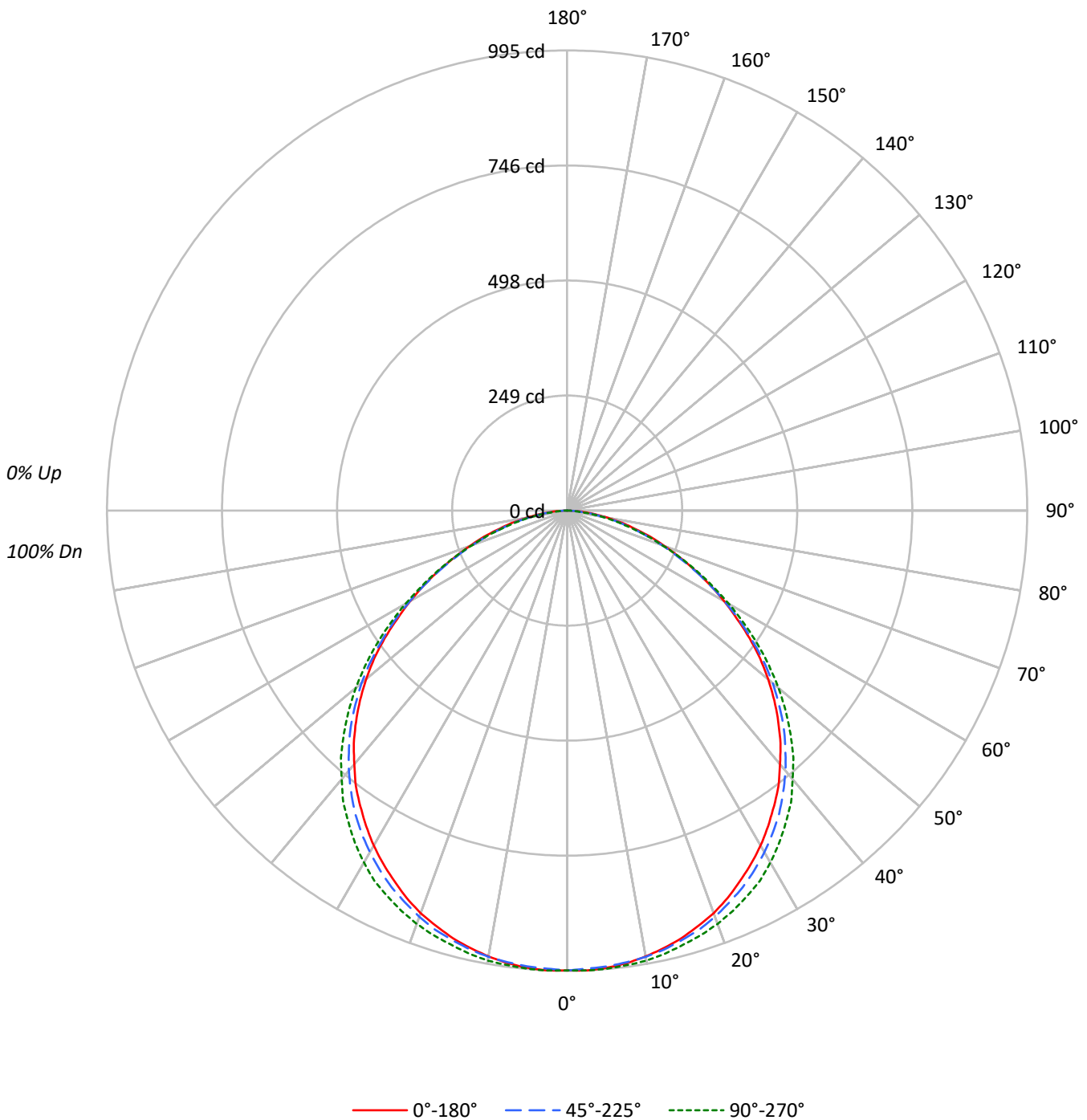
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	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	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1338	1338	1338
5°	1340	1336	1343
10°	1337	1339	1350
15°	1333	1339	1354
20°	1326	1338	1362
25°	1312	1334	1366
30°	1300	1325	1365
35°	1281	1313	1354
40°	1257	1290	1332
45°	1229	1260	1299
50°	1187	1216	1248
55°	1130	1145	1178
60°	1055	1060	1088
65°	969	962	985
70°	880	856	860
75°	783	740	735
80°	680	607	591
85°	557	431	335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.5
10°-20°	271.9	10.0
20°-30°	415.0	15.3
30°-40°	500.3	18.4
40°-50°	510.2	18.8
50°-60°	436.6	16.1
60°-70°	300.7	11.1
70°-80°	154.2	5.7
80°-90°	35.9	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°	781.1	28.7
0°-40°	1281.4	47.1
0°-60°	2228.2	81.9
0°-90°	2719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	992	990	989	992	994	94
15°	957	956	961	969	972	270
25°	884	887	898	914	920	408
35°	780	783	799	817	824	488
45°	646	647	662	679	683	497
55°	482	479	488	498	502	430
65°	304	297	302	304	309	302
75°	151	144	142	142	141	162
85°	36	32	28	25	22	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.3	994.3	994.3	994.3	994.3
2.5°	995.4	993.3	991.3	993.3	995.4
5°	992.3	990.2	989.2	992.3	994.3
7.5°	987.1	985.1	985.1	989.2	991.3
10°	978.9	977.8	979.9	984.0	988.2
12.5°	968.6	968.6	971.7	976.8	980.9
15°	957.2	956.2	961.3	968.6	971.7
17.5°	941.7	942.8	950.0	958.2	962.4
20°	926.3	927.3	934.5	945.9	951.0
22.5°	906.7	908.7	917.0	931.4	936.6
25°	884.0	887.1	898.4	913.9	920.1
27.5°	861.3	864.4	876.8	894.3	902.5
30°	836.5	840.7	853.0	871.6	878.8
32.5°	808.7	811.8	827.2	845.8	853.0
35°	779.8	782.9	799.4	816.9	824.2
37.5°	750.9	750.9	767.4	788.1	795.3
40°	715.8	716.9	734.4	754.0	758.1
42.5°	682.8	682.8	698.3	716.9	724.1
45°	645.7	646.7	662.2	678.7	682.8
47.5°	607.5	607.5	621.0	636.4	640.6
50°	567.3	565.3	580.7	593.1	596.2
52.5°	526.1	523.0	535.3	545.7	549.8
55°	481.7	478.6	487.9	498.2	502.3
57.5°	435.3	431.2	441.5	450.8	452.8
60°	392.0	385.8	394.0	399.2	404.3
62.5°	348.6	341.4	347.6	350.7	354.8
65°	304.3	297.1	302.2	304.3	309.4
67.5°	262.0	256.8	257.9	261.0	263.0
70°	223.8	217.6	217.6	217.6	218.7
72.5°	188.8	179.5	178.4	179.5	179.5
75°	150.6	144.4	142.3	142.3	141.3
77.5°	120.7	112.4	111.4	109.3	107.3
80°	87.7	80.5	78.4	77.4	76.3
82.5°	60.9	54.7	52.6	50.5	47.4
85°	36.1	32.0	27.9	24.8	21.7
87.5°	13.4	12.4	10.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)