

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: P393490

Luminaire Tested: **24EN-LD2-40-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-33)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L92765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

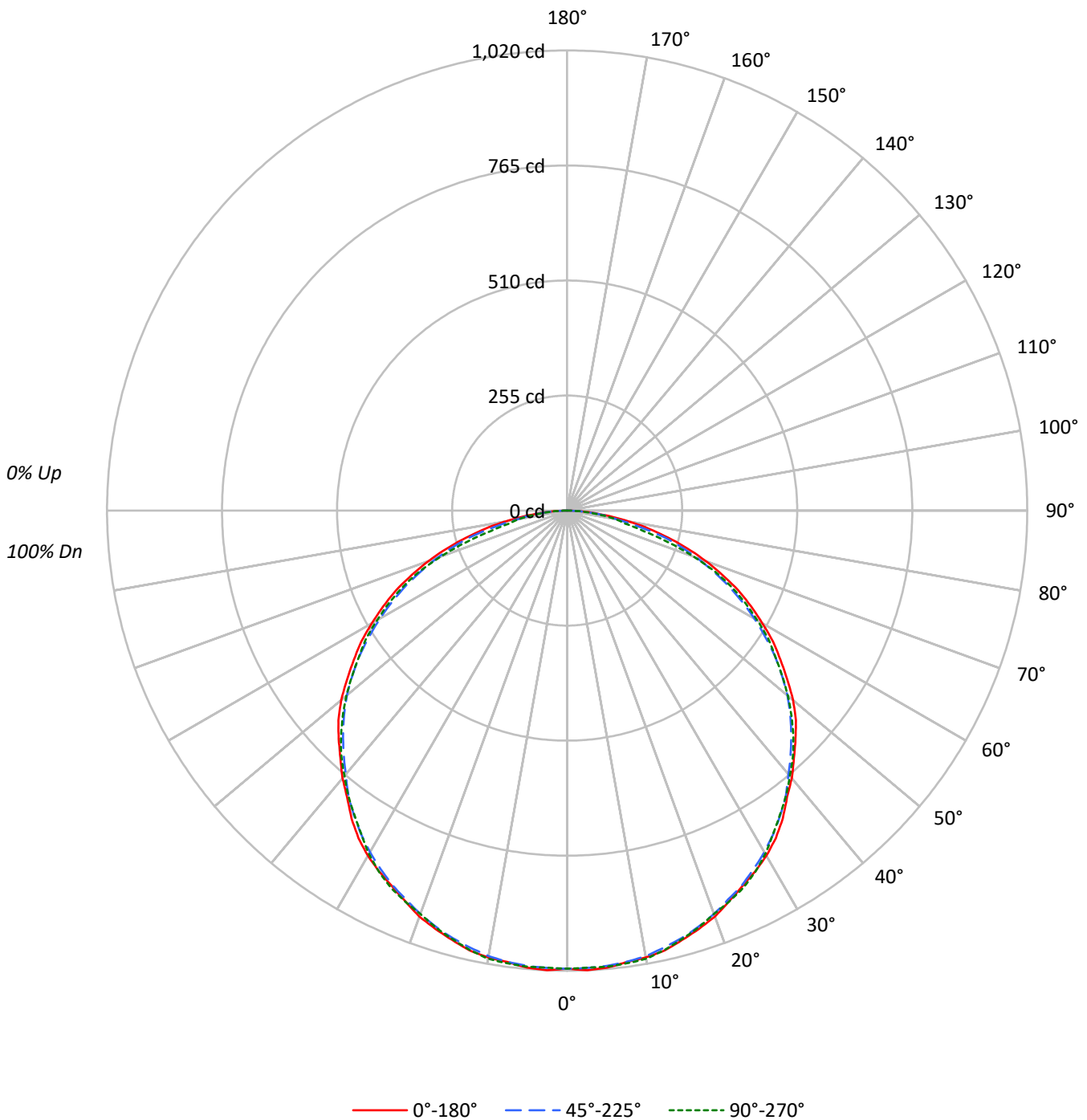
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1366	1366	1366
5°	1373	1368	1370
10°	1374	1370	1378
15°	1373	1366	1370
20°	1371	1363	1363
25°	1364	1360	1370
30°	1372	1358	1365
35°	1368	1354	1351
40°	1360	1341	1349
45°	1362	1337	1349
50°	1368	1334	1337
55°	1354	1319	1320
60°	1345	1291	1311
65°	1333	1254	1283
70°	1284	1202	1169
75°	1202	1120	913
80°	1070	866	855
85°	846	800	718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.2
10°-20°	277.1	9.1
20°-30°	423.1	13.9
30°-40°	516.2	17.0
40°-50°	545.1	17.9
50°-60°	505.4	16.6
60°-70°	395.9	13.0
70°-80°	221.6	7.3
80°-90°	59.1	1.9
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°	796.7	26.2
0°-40°	1312.9	43.2
0°-60°	2363.4	77.7
0°-90°	3040.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1017	1017	1013	1014	1015	97
15°	985	981	981	979	983	278
25°	919	919	916	915	923	425
35°	833	826	824	823	823	521
45°	716	709	702	701	709	553
55°	577	570	562	562	563	517
65°	419	406	394	396	403	412
75°	231	224	215	187	176	245
85°	55	52	52	49	46	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.4	1015.4	1015.4	1015.4	1015.4
2.5°	1019.9	1017.7	1014.7	1015.4	1013.9
5°	1016.9	1016.9	1013.2	1013.9	1014.7
7.5°	1009.4	1010.2	1008.7	1005.7	1012.4
10°	1005.7	1000.4	1002.7	996.7	1008.7
12.5°	998.9	990.7	992.2	987.7	997.4
15°	985.4	980.9	980.9	978.7	983.2
17.5°	971.9	968.9	967.4	968.9	968.9
20°	957.6	955.4	951.6	954.6	951.6
22.5°	937.4	938.9	932.9	939.6	938.1
25°	918.6	918.6	916.4	914.9	923.1
27.5°	902.1	896.9	895.4	892.3	902.9
30°	883.3	873.6	874.3	869.8	878.8
32.5°	860.8	849.6	850.3	845.8	849.6
35°	833.1	825.6	824.1	823.3	822.6
37.5°	800.8	800.0	796.3	798.5	797.0
40°	774.5	773.0	763.3	765.5	767.8
42.5°	743.8	741.5	733.2	734.7	740.7
45°	716.0	709.2	702.5	701.0	709.2
47.5°	687.5	677.0	671.0	666.4	674.7
50°	653.7	644.7	637.2	632.7	638.7
52.5°	614.7	607.2	599.7	598.2	600.4
55°	577.1	569.6	562.1	562.1	562.9
57.5°	541.1	531.4	520.1	522.4	528.4
60°	499.8	490.8	479.6	479.6	487.1
62.5°	459.3	448.1	436.8	438.3	445.8
65°	418.8	406.0	394.0	396.3	403.0
67.5°	372.3	361.0	349.7	352.7	356.5
70°	326.5	315.2	305.5	302.5	297.2
72.5°	279.9	270.9	262.7	246.2	237.9
75°	231.2	224.4	215.4	186.9	175.6
77.5°	186.1	180.9	160.6	134.3	130.6
80°	138.1	138.1	111.8	109.6	110.3
82.5°	93.8	92.3	84.8	79.6	77.3
85°	54.8	52.5	51.8	48.8	46.5
87.5°	18.0	21.0	21.0	20.3	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)