

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: P393414

Luminaire Tested: **24EN-LD2-30-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-30-UNV-L82765-W2A-1-U (4500K)
Description: 2X4 ENCOUNTER, 3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.4 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

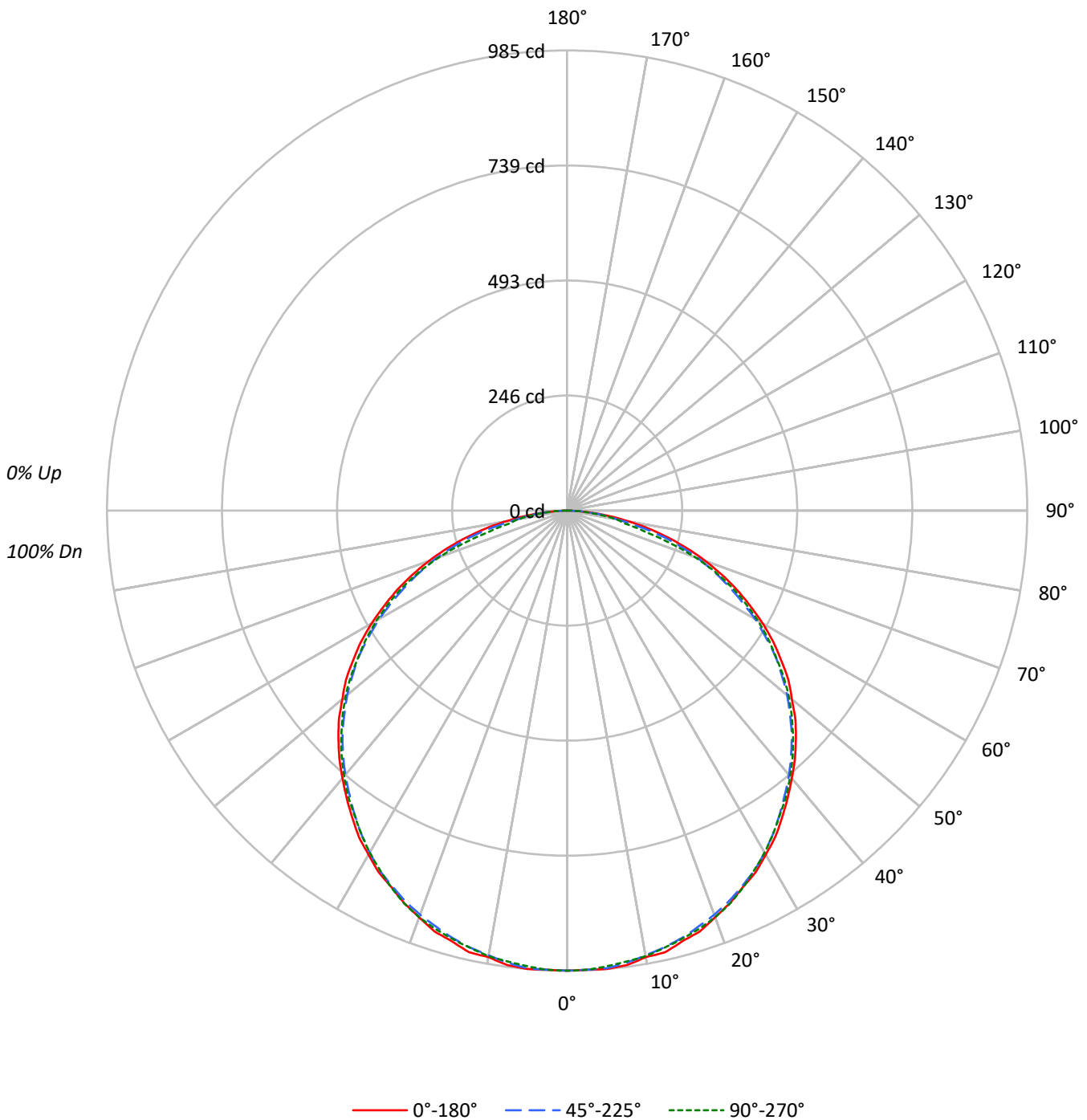
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1325	1325	1325
5°	1330	1328	1322
10°	1326	1321	1323
15°	1329	1320	1322
20°	1326	1318	1326
25°	1321	1317	1322
30°	1321	1313	1313
35°	1318	1303	1305
40°	1314	1297	1304
45°	1318	1294	1301
50°	1315	1286	1297
55°	1313	1277	1279
60°	1302	1250	1268
65°	1277	1209	1240
70°	1237	1173	1146
75°	1165	1080	885
80°	1036	842	820
85°	846	758	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.2
10°-20°	267.8	9.1
20°-30°	409.2	13.9
30°-40°	498.8	17.0
40°-50°	526.5	17.9
50°-60°	488.8	16.6
60°-70°	382.8	13.0
70°-80°	214.0	7.3
80°-90°	57.0	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°	770.4	26.2
0°-40°	1269.3	43.2
0°-60°	2284.6	77.7
0°-90°	2938.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	985	984	983	983	979	94
15°	954	948	947	946	949	270
25°	890	889	887	884	891	411
35°	802	799	794	796	794	502
45°	692	685	680	676	684	534
55°	560	552	544	542	545	500
65°	401	392	380	384	390	396
75°	224	217	208	178	170	237
85°	55	49	49	46	44	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.9	984.9	984.9	984.9	984.9
2.5°	984.0	985.9	984.0	982.0	984.0
5°	984.9	984.0	983.0	983.0	979.1
7.5°	981.1	979.1	976.3	977.2	973.4
10°	970.5	970.5	966.6	969.5	968.6
12.5°	968.6	958.9	958.0	958.9	958.9
15°	954.1	948.4	947.4	946.4	949.3
17.5°	944.5	934.9	933.9	932.0	938.7
20°	926.2	920.5	920.5	917.6	926.2
22.5°	909.9	904.1	905.1	901.2	910.9
25°	889.7	888.7	886.8	883.9	890.7
27.5°	873.3	869.5	868.5	865.6	867.6
30°	850.3	849.3	845.4	844.5	845.4
32.5°	829.1	826.2	820.4	821.4	820.4
35°	802.2	799.3	793.5	796.4	794.5
37.5°	775.2	772.4	765.6	768.5	770.4
40°	748.3	744.5	738.7	741.6	742.5
42.5°	721.4	714.6	709.8	707.9	714.6
45°	692.5	684.8	680.0	676.2	683.9
47.5°	662.7	654.0	647.3	645.4	652.1
50°	628.1	621.3	614.6	611.7	619.4
52.5°	597.3	586.7	579.0	577.1	583.8
55°	559.8	552.1	544.4	541.5	545.4
57.5°	523.2	514.6	504.0	504.0	509.8
60°	483.8	475.1	464.6	465.5	471.3
62.5°	441.5	435.7	421.3	425.1	430.9
65°	401.1	392.4	379.9	383.8	389.5
67.5°	357.8	350.1	338.6	339.5	342.4
70°	314.5	304.9	298.2	291.4	291.4
72.5°	269.3	261.6	253.9	235.6	231.8
75°	224.1	217.4	207.8	177.9	170.2
77.5°	179.9	175.1	156.8	128.9	126.0
80°	133.7	132.7	108.7	105.8	105.8
82.5°	92.3	88.5	82.7	76.9	74.1
85°	54.8	49.1	49.1	46.2	44.2
87.5°	17.3	20.2	20.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)