

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: CORELITE

Report Number: P220211

Luminaire Tested: **R3-WG-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-1L35-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2893.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

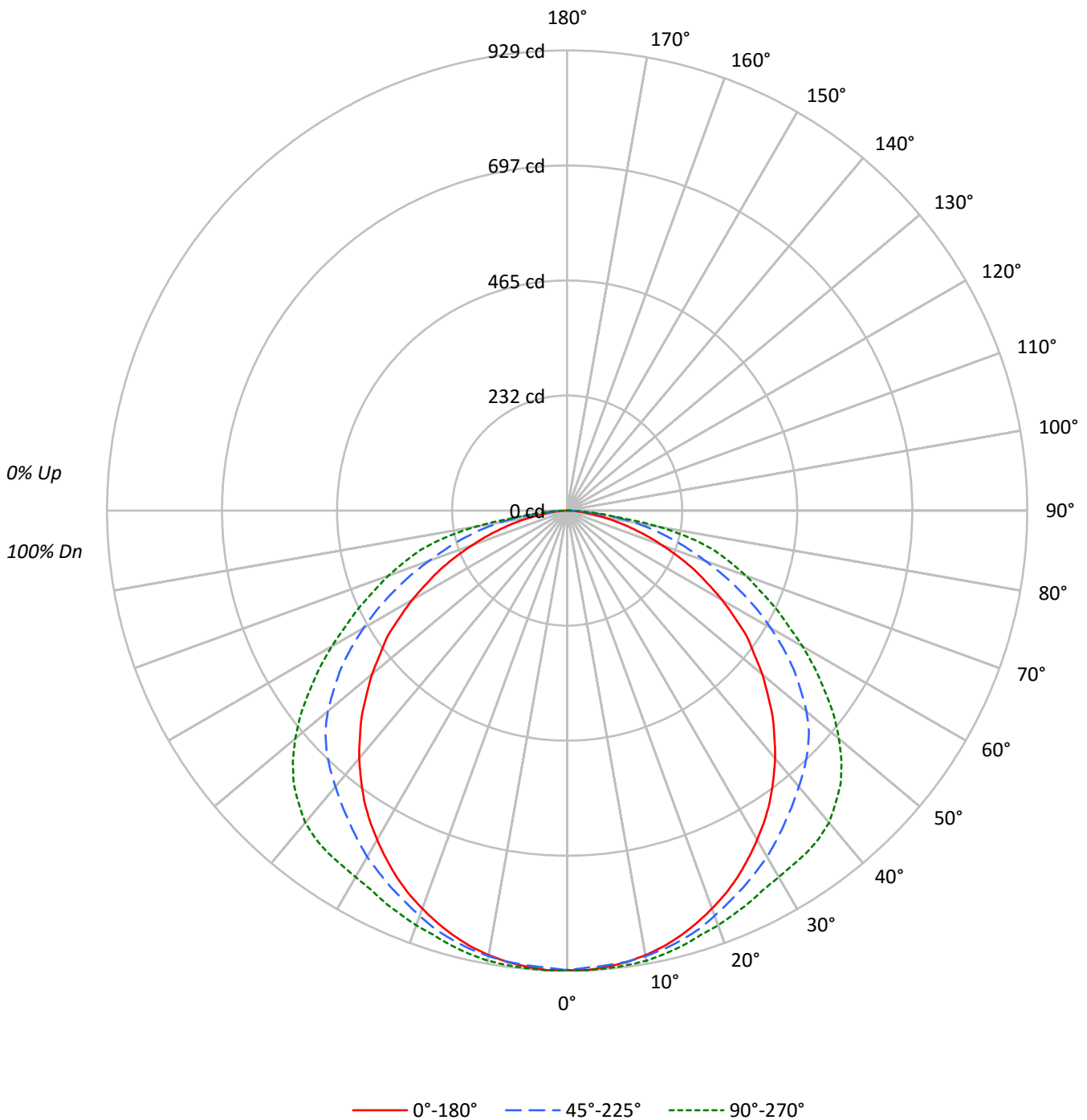
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1248	1248	1248
5°	1249	1245	1253
10°	1245	1248	1260
15°	1237	1249	1265
20°	1225	1246	1276
25°	1211	1247	1295
30°	1192	1254	1327
35°	1173	1260	1385
40°	1147	1278	1445
45°	1117	1307	1486
50°	1077	1320	1500
55°	1039	1309	1489
60°	972	1277	1477
65°	903	1231	1475
70°	803	1164	1509
75°	684	1125	1592
80°	530	1068	1471
85°	378	709	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.0
10°-20°	253.5	8.8
20°-30°	388.9	13.4
30°-40°	484.4	16.7
40°-50°	526.5	18.2
50°-60°	488.0	16.9
60°-70°	376.3	13.0
70°-80°	229.6	7.9
80°-90°	58.0	2.0
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°	730.3	25.2
0°-40°	1214.7	42.0
0°-60°	2229.2	77.1
0°-90°	2893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	925	925	922	927	928	88
15°	888	892	897	906	908	250
25°	815	825	840	864	872	376
35°	714	727	767	822	843	446
45°	587	608	687	756	781	451
55°	443	472	558	618	635	393
65°	284	319	387	440	463	279
75°	132	163	216	278	306	141
85°	24	40	46	53	57	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.7	927.7	927.7	927.7	927.7
2.5°	928.7	926.6	923.6	927.7	928.7
5°	924.6	924.6	921.5	926.6	927.7
7.5°	919.5	918.5	918.5	923.6	925.6
10°	911.3	911.3	913.4	920.5	922.6
12.5°	901.1	902.1	906.2	914.4	916.4
15°	887.9	891.9	897.0	906.2	908.3
17.5°	872.5	876.6	885.8	895.0	898.1
20°	855.2	861.3	870.5	885.8	890.9
22.5°	836.8	844.0	855.2	874.6	881.7
25°	815.4	824.6	839.9	864.4	872.5
27.5°	791.9	802.1	823.6	851.1	861.3
30°	767.4	777.6	807.2	839.9	854.2
32.5°	741.9	752.1	787.8	829.7	848.1
35°	714.4	726.6	767.4	821.5	843.0
37.5°	683.8	697.0	748.0	812.3	834.8
40°	653.1	668.4	727.6	799.1	822.5
42.5°	619.5	640.9	708.2	779.7	802.1
45°	586.8	608.2	686.8	756.2	780.7
47.5°	549.0	577.6	662.3	727.6	751.1
50°	514.3	543.9	630.7	696.0	716.4
52.5°	475.6	509.2	593.9	659.3	678.6
55°	442.9	472.5	558.2	618.4	634.8
57.5°	400.0	437.8	517.4	575.6	592.9
60°	361.3	397.0	474.5	531.7	549.0
62.5°	320.4	362.3	431.7	485.8	503.1
65°	283.7	319.4	386.8	439.8	463.3
67.5°	242.9	278.6	341.9	397.0	420.5
70°	204.1	239.8	296.0	356.2	383.7
72.5°	167.4	200.0	255.1	315.3	343.9
75°	131.6	163.3	216.4	277.6	306.2
77.5°	99.0	128.6	177.6	234.7	253.1
80°	68.4	95.9	137.8	177.6	189.8
82.5°	43.9	67.4	92.9	107.2	101.0
85°	24.5	39.8	45.9	53.1	57.1
87.5°	11.2	13.3	16.3	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)