

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: P220101

Luminaire Tested: **R3-WD-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-6L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4180.0 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

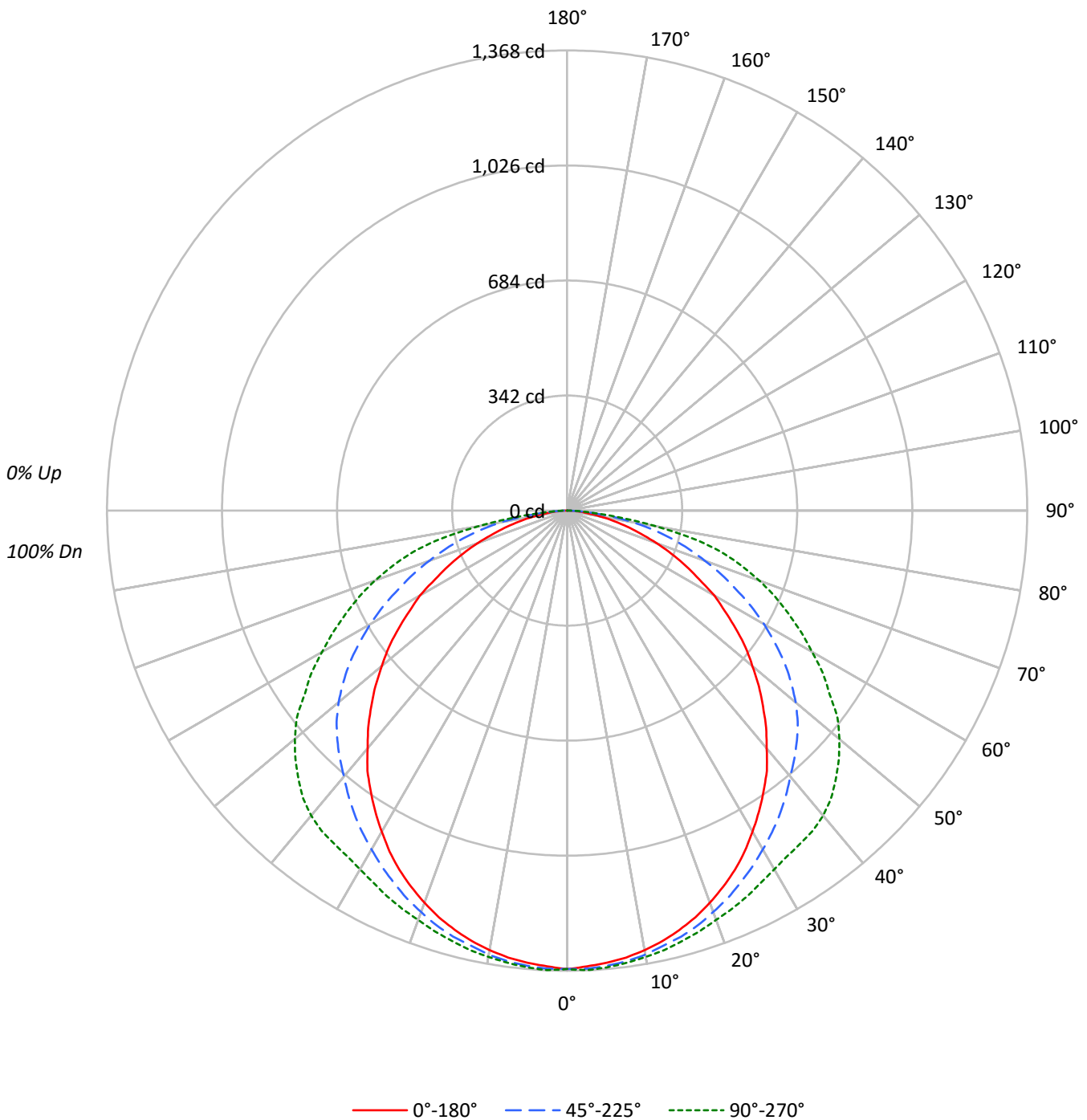
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	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	50	48
5	75	61	52	45	73	60	52	45	58	50	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	31		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°	3668	3668	3668
5°	3645	3669	3682
10°	3625	3662	3681
15°	3595	3652	3690
20°	3552	3637	3708
25°	3502	3623	3757
30°	3425	3615	3826
35°	3345	3621	3971
40°	3242	3625	4158
45°	3133	3677	4298
50°	3010	3712	4424
55°	2873	3703	4469
60°	2722	3637	4528
65°	2484	3524	4621
70°	2231	3426	4782
75°	1910	3325	4928
80°	1547	3093	4111
85°	1121	1961	2381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.1
10°-20°	369.6	8.8
20°-30°	563.3	13.5
30°-40°	693.8	16.6
40°-50°	749.8	17.9
50°-60°	701.6	16.8
60°-70°	551.7	13.2
70°-80°	340.1	8.1
80°-90°	81.2	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°	1061.9	25.4
0°-40°	1755.7	42.0
0°-60°	3207.0	76.7
0°-90°	4180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1349	1354	1358	1361	1363	128
15°	1290	1297	1311	1322	1324	364
25°	1179	1191	1220	1254	1266	543
35°	1018	1039	1102	1175	1209	637
45°	823	862	966	1086	1129	635
55°	612	667	789	909	952	547
65°	390	442	553	671	726	386
75°	184	231	320	424	474	196
85°	36	50	64	79	77	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.0	1363.0	1363.0	1363.0	<i>1363.0</i>
2.5°	<i>1356.2</i>	<i>1358.4</i>	<i>1363.0</i>	<i>1365.2</i>	<i>1367.5</i>
5°	1349.4	1353.9	1358.4	1360.7	<i>1363.0</i>
7.5°	1340.3	1344.8	1351.6	1356.2	<i>1356.2</i>
10°	1326.7	1331.2	1340.3	1347.1	<i>1347.1</i>
12.5°	1310.8	1315.3	1324.4	1335.8	<i>1338.0</i>
15°	1290.4	1297.2	1310.8	1322.1	<i>1324.4</i>
17.5°	1267.7	1274.5	1292.7	1306.3	<i>1310.8</i>
20°	1240.5	1249.6	1270.0	1290.4	<i>1294.9</i>
22.5°	1211.0	1222.4	1247.3	1272.3	<i>1281.3</i>
25°	1179.3	1190.6	1220.1	1254.1	<i>1265.5</i>
27.5°	1143.0	1154.3	1192.9	1233.7	<i>1247.3</i>
30°	1102.2	1120.3	1163.4	1211.0	<i>1231.4</i>
32.5°	1061.3	1079.5	1133.9	1192.9	<i>1217.8</i>
35°	1018.3	1038.7	1102.2	1174.7	<i>1208.8</i>
37.5°	975.2	997.8	1068.2	1158.9	<i>1199.7</i>
40°	923.0	952.5	1031.9	1143.0	<i>1183.8</i>
42.5°	875.4	907.1	1000.1	1118.0	<i>1161.1</i>
45°	823.2	861.8	966.1	1086.3	<i>1129.4</i>
47.5°	773.3	811.9	929.8	1050.0	<i>1095.4</i>
50°	718.9	764.3	886.7	1009.2	<i>1056.8</i>
52.5°	669.0	714.4	839.1	961.6	<i>1013.7</i>
55°	612.3	666.7	789.2	909.4	<i>952.5</i>
57.5°	555.6	605.5	732.5	852.7	<i>902.6</i>
60°	505.7	551.1	675.8	793.7	<i>841.4</i>
62.5°	442.2	496.7	616.9	732.5	<i>784.7</i>
65°	390.1	442.2	553.4	671.3	<i>725.7</i>
67.5°	335.6	390.1	496.7	612.3	<i>669.0</i>
70°	283.5	333.4	435.4	551.1	<i>607.8</i>
72.5°	229.1	278.9	378.7	489.9	<i>542.0</i>
75°	183.7	231.3	319.8	424.1	<i>474.0</i>
77.5°	140.6	181.4	260.8	351.5	<i>383.3</i>
80°	99.8	133.8	199.6	249.5	<i>265.3</i>
82.5°	63.5	90.7	124.7	154.2	<i>154.2</i>
85°	36.3	49.9	63.5	79.4	<i>77.1</i>
87.5°	15.9	18.1	20.4	24.9	<i>24.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)