

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: P220118

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-6L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

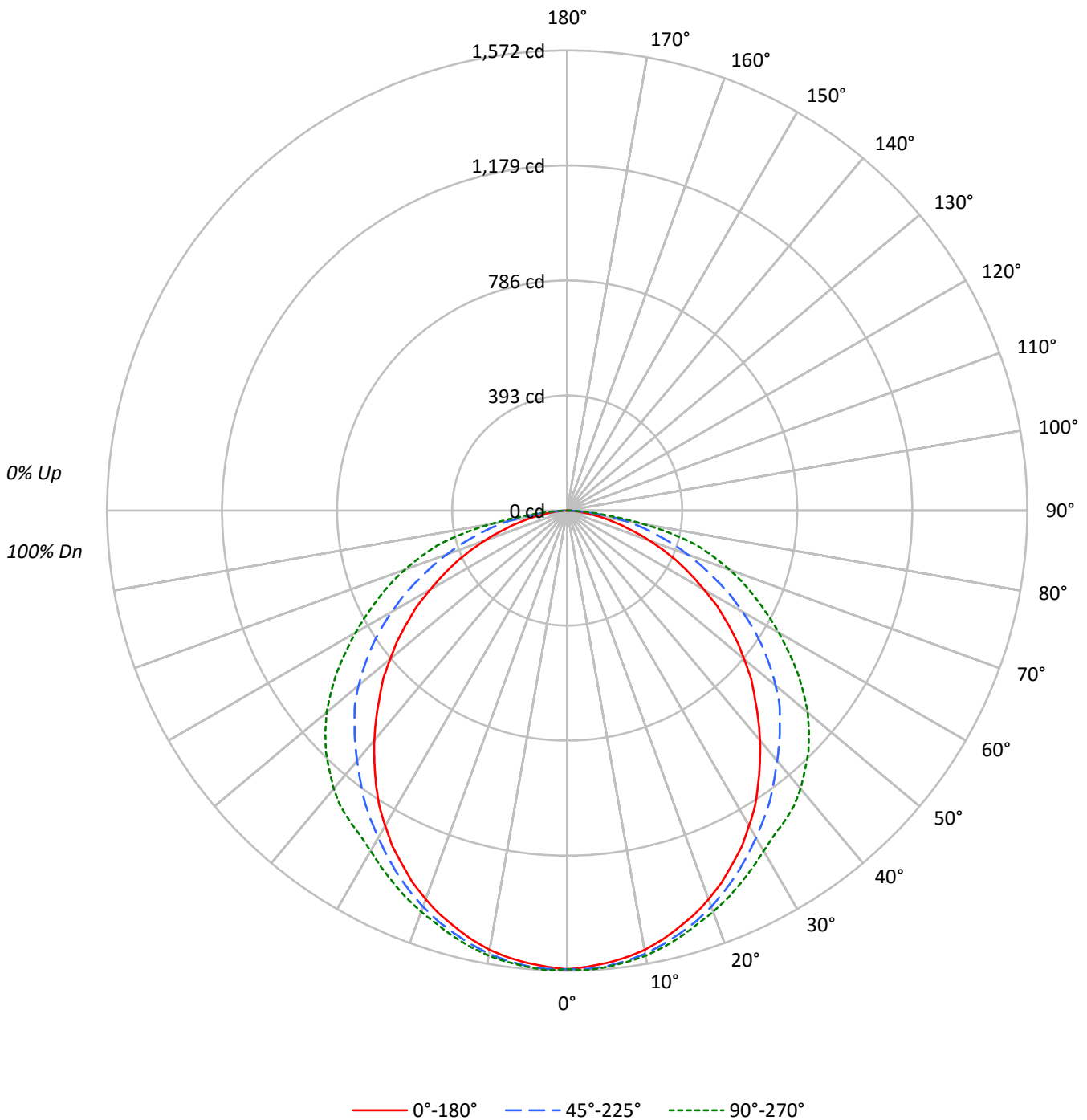
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4217	4217	4217
5°	4190	4221	4227
10°	4164	4201	4220
15°	4107	4164	4195
20°	4046	4124	4176
25°	3959	4067	4168
30°	3862	4010	4172
35°	3740	3971	4254
40°	3601	3920	4358
45°	3452	3910	4436
50°	3304	3893	4491
55°	3128	3830	4501
60°	2905	3723	4492
65°	2671	3581	4534
70°	2356	3444	4639
75°	1957	3277	4763
80°	1547	3058	4077
85°	1050	2171	2729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.3
10°-20°	421.1	9.4
20°-30°	631.3	14.2
30°-40°	758.5	17.0
40°-50°	796.2	17.8
50°-60°	726.4	16.3
60°-70°	559.6	12.5
70°-80°	336.6	7.5
80°-90°	83.5	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°	1200.5	26.9
0°-40°	1959.0	43.9
0°-60°	3481.6	78.0
0°-90°	4461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1551	1556	1562	1565	1565	147
15°	1474	1481	1494	1504	1506	416
25°	1334	1345	1370	1395	1404	615
35°	1138	1157	1209	1266	1295	712
45°	907	937	1027	1125	1166	701
55°	667	710	816	918	959	597
65°	420	465	562	667	712	414
75°	188	234	315	413	458	203
85°	34	50	70	82	88	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.1	1567.1	1567.1	1567.1	1567.1
2.5°	1560.3	1562.5	1567.1	1571.6	1571.6
5°	1551.2	1555.7	1562.5	1564.8	1564.8
7.5°	1539.9	1544.4	1551.2	1555.7	1555.7
10°	1524.0	1526.3	1537.6	1542.1	1544.4
12.5°	1501.3	1508.1	1517.2	1526.3	1526.3
15°	1474.1	1480.9	1494.5	1503.6	1505.8
17.5°	1446.9	1453.7	1469.6	1480.9	1480.9
20°	1412.9	1421.9	1440.1	1453.7	1458.2
22.5°	1376.6	1385.6	1406.1	1424.2	1433.3
25°	1333.5	1344.8	1369.8	1394.7	1403.8
27.5°	1292.7	1301.7	1331.2	1365.2	1374.3
30°	1242.8	1256.4	1290.4	1329.0	1342.6
32.5°	1195.2	1208.8	1249.6	1294.9	1315.3
35°	1138.5	1156.6	1208.8	1265.5	1294.9
37.5°	1081.8	1102.2	1161.1	1236.0	1272.3
40°	1025.1	1047.7	1115.8	1208.8	1240.5
42.5°	966.1	993.3	1072.7	1170.2	1202.0
45°	907.1	936.6	1027.3	1124.8	1165.7
47.5°	852.7	882.2	984.2	1081.8	1120.3
50°	789.2	825.5	929.8	1034.1	1072.7
52.5°	730.2	764.3	873.1	977.4	1016.0
55°	666.7	709.8	816.4	918.5	959.3
57.5°	607.8	646.3	755.2	855.0	895.8
60°	539.7	585.1	691.7	791.5	834.6
62.5°	478.5	523.9	630.5	728.0	773.3
65°	419.5	464.9	562.4	666.7	712.1
67.5°	358.3	405.9	498.9	605.5	653.1
70°	299.4	342.4	437.7	542.0	589.6
72.5°	240.4	285.7	376.5	478.5	523.9
75°	188.2	233.6	315.2	412.7	458.1
77.5°	142.9	179.2	258.5	340.2	367.4
80°	99.8	133.8	197.3	251.7	263.1
82.5°	63.5	90.7	129.3	158.7	156.5
85°	34.0	49.9	70.3	81.6	88.4
87.5°	15.9	18.1	22.7	29.5	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)