

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: P220135

Luminaire Tested: **Z3-WL-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-6L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4421.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

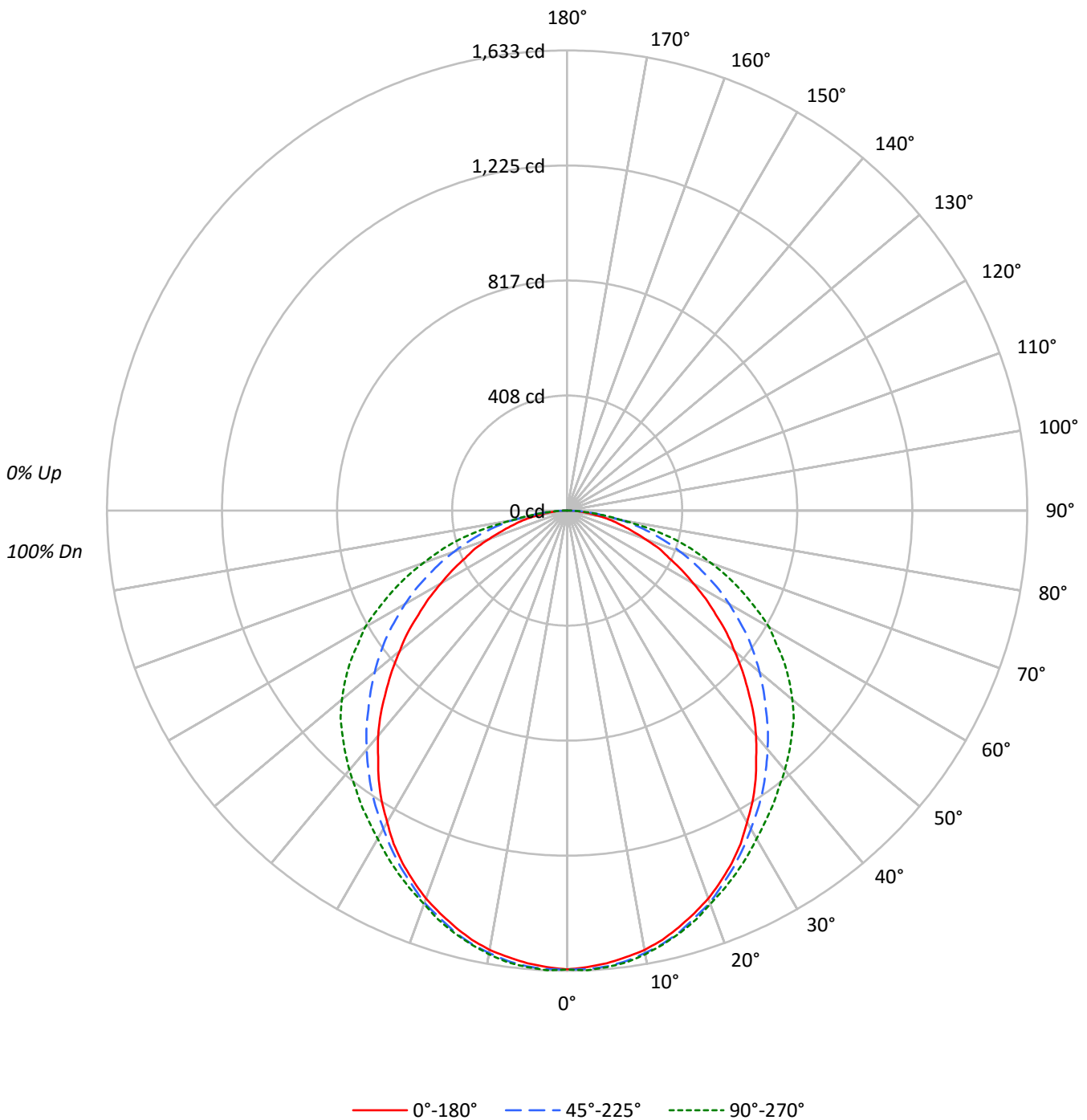
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4382	4382	4382
5°	4356	4386	4392
10°	4325	4356	4369
15°	4265	4309	4321
20°	4195	4241	4254
25°	4101	4148	4215
30°	3967	4052	4179
35°	3829	3978	4187
40°	3665	3888	4222
45°	3461	3797	4289
50°	3247	3731	4367
55°	3022	3671	4416
60°	2783	3576	4455
65°	2541	3466	4376
70°	2319	3355	4264
75°	2075	3230	4127
80°	1827	3022	3093
85°	1612	2381	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.5
10°-20°	434.9	9.8
20°-30°	644.3	14.6
30°-40°	759.5	17.2
40°-50°	778.8	17.6
50°-60°	704.1	15.9
60°-70°	541.4	12.2
70°-80°	320.9	7.3
80°-90°	83.4	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°	1233.1	27.9
0°-40°	1992.6	45.1
0°-60°	3475.5	78.6
0°-90°	4421.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4421.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1612	1617	1624	1626	1626	153
15°	1531	1535	1547	1551	1551	432
25°	1381	1386	1397	1413	1420	635
35°	1166	1172	1211	1254	1274	728
45°	909	928	998	1089	1127	702
55°	644	689	782	891	941	578
65°	399	449	544	649	687	400
75°	200	238	311	376	397	213
85°	52	64	77	82	75	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.3	1628.3	1628.3	1628.3	1628.3
2.5°	1621.5	1623.8	1628.3	1632.8	1632.8
5°	1612.4	1617.0	1623.8	1626.0	1626.0
7.5°	1598.8	1603.4	1612.4	1614.7	1617.0
10°	1582.9	1585.2	1594.3	1598.8	1598.8
12.5°	1560.3	1564.8	1573.9	1578.4	1576.1
15°	1530.8	1535.3	1546.7	1551.2	1551.2
17.5°	1499.0	1503.6	1512.6	1519.4	1521.7
20°	1465.0	1467.3	1480.9	1485.4	1485.4
22.5°	1424.2	1431.0	1437.8	1451.4	1453.7
25°	1381.1	1385.6	1397.0	1412.9	1419.7
27.5°	1333.5	1335.8	1351.6	1376.6	1383.4
30°	1276.8	1285.9	1304.0	1335.8	1344.8
32.5°	1224.6	1231.4	1258.6	1294.9	1308.5
35°	1165.7	1172.5	1211.0	1254.1	1274.5
37.5°	1102.2	1111.2	1158.9	1211.0	1236.0
40°	1043.2	1054.5	1106.7	1172.5	1202.0
42.5°	979.7	991.0	1054.5	1129.4	1165.7
45°	909.4	927.5	997.8	1088.6	1127.1
47.5°	843.6	866.3	945.7	1045.5	1090.8
50°	775.6	807.3	891.3	1000.1	1043.2
52.5°	714.4	743.8	836.8	948.0	993.3
55°	644.1	689.4	782.4	891.3	941.2
57.5°	582.8	623.7	721.2	836.8	879.9
60°	517.1	562.4	664.5	775.6	827.8
62.5°	460.4	503.5	607.8	714.4	757.5
65°	399.1	449.0	544.3	648.6	687.2
67.5°	353.8	387.8	487.6	585.1	619.1
70°	294.8	335.6	426.4	514.8	542.0
72.5°	242.7	285.7	369.7	446.8	471.7
75°	199.6	238.1	310.7	376.5	396.9
77.5°	161.0	192.8	256.3	301.6	306.2
80°	117.9	145.1	195.0	206.4	199.6
82.5°	83.9	102.1	129.3	136.1	129.3
85°	52.2	63.5	77.1	81.6	74.8
87.5°	24.9	24.9	31.7	31.7	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)