

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: P220186

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-6L35-LD5-UNV-22
Description: CLASS Z3 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: 4384.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

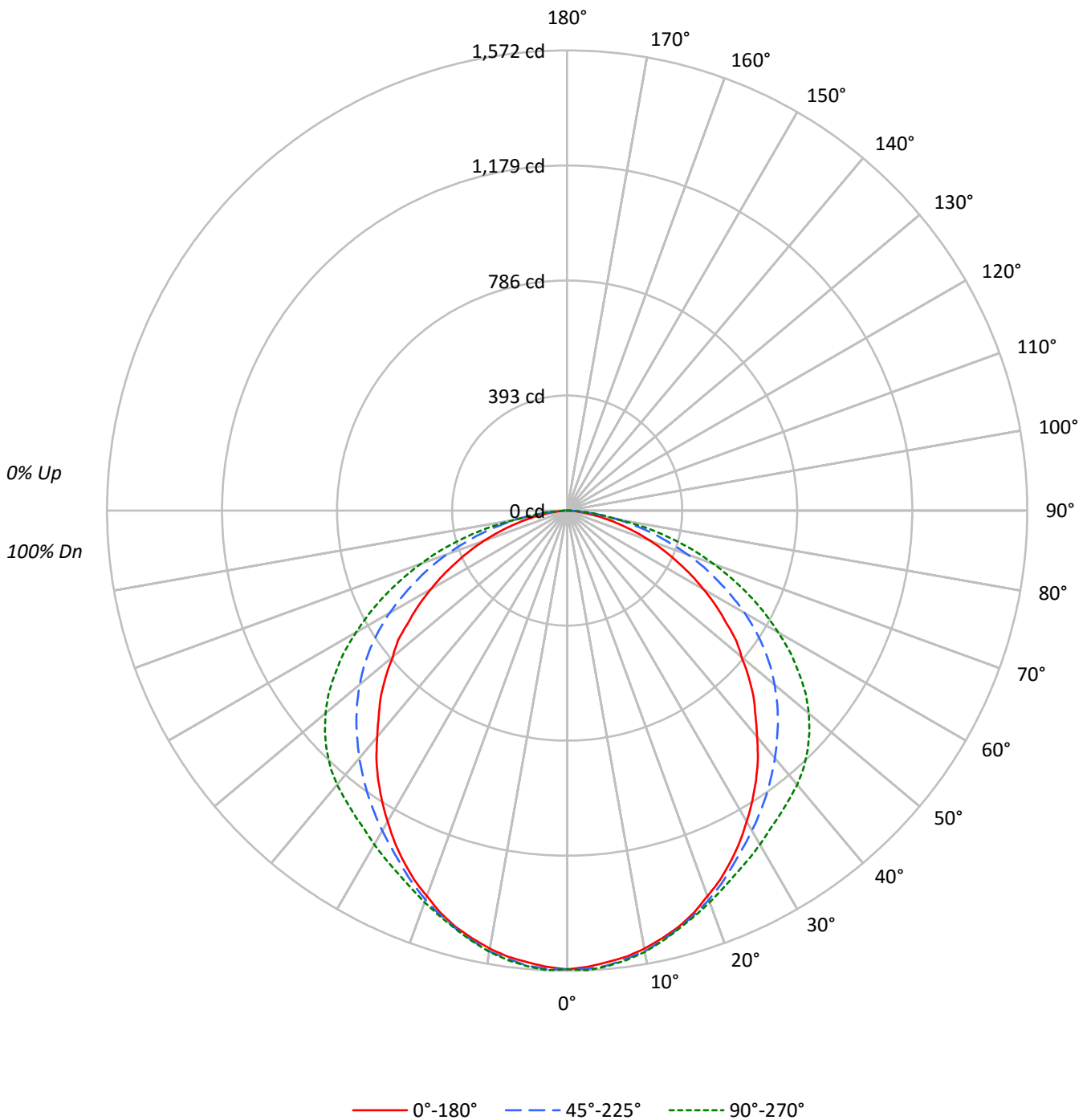
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	4184	4215	4221
10°	4152	4177	4183
15°	4100	4113	4119
20°	4013	4052	4078
25°	3926	3973	4060
30°	3812	3925	4094
35°	3695	3896	4164
40°	3545	3880	4294
45°	3426	3875	4419
50°	3257	3874	4510
55°	3096	3852	4533
60°	2893	3772	4479
65°	2657	3624	4376
70°	2391	3444	4193
75°	2005	3160	3844
80°	1547	2777	2811
85°	1121	1890	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.4
10°-20°	416.2	9.5
20°-30°	619.1	14.1
30°-40°	745.6	17.0
40°-50°	789.6	18.0
50°-60°	730.1	16.7
60°-70°	556.0	12.7
70°-80°	309.5	7.1
80°-90°	70.5	1.6
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°	1182.9	27.0
0°-40°	1928.5	44.0
0°-60°	3448.2	78.7
0°-90°	4384.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1549	1554	1560	1562	1562	147
15°	1472	1474	1476	1479	1479	414
25°	1322	1324	1338	1356	1368	608
35°	1125	1136	1186	1245	1268	703
45°	900	928	1018	1120	1161	692
55°	660	714	821	928	966	592
65°	417	472	569	655	687	414
75°	193	236	304	354	370	206
85°	36	50	61	66	66	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°	1548.9	1553.5	1560.3	1562.5	1562.5
7.5°	1537.6	1539.9	1544.4	1548.9	1548.9
10°	1519.5	1521.7	1528.5	1530.8	1530.8
12.5°	1496.8	1499.0	1503.6	1505.8	1505.8
15°	1471.8	1474.1	1476.4	1478.6	1478.6
17.5°	1440.1	1442.3	1446.9	1451.4	1451.4
20°	1401.5	1408.3	1415.1	1419.7	1424.2
22.5°	1365.2	1367.5	1378.8	1390.2	1394.7
25°	1322.1	1324.4	1338.0	1356.2	1367.5
27.5°	1276.8	1283.6	1299.5	1331.2	1342.6
30°	1226.9	1236.0	1263.2	1301.7	1317.6
32.5°	1177.0	1186.1	1224.6	1272.3	1290.4
35°	1124.8	1136.2	1186.1	1245.0	1267.7
37.5°	1070.4	1084.0	1145.3	1215.6	1245.0
40°	1009.2	1031.9	1104.4	1186.1	1222.4
42.5°	952.5	979.7	1061.3	1154.3	1195.2
45°	900.3	927.5	1018.3	1120.3	1161.1
47.5°	841.4	875.4	972.9	1081.8	1122.6
50°	777.9	821.0	925.3	1036.4	1077.2
52.5°	728.0	766.5	875.4	986.5	1027.3
55°	659.9	714.4	821.0	927.5	966.1
57.5°	601.0	650.9	762.0	866.3	904.9
60°	537.5	589.6	700.8	798.3	832.3
62.5°	478.5	528.4	635.0	730.2	762.0
65°	417.3	471.7	569.2	655.4	687.2
67.5°	358.3	410.5	505.7	585.1	610.0
70°	303.9	349.2	437.7	503.5	532.9
72.5°	244.9	290.3	367.4	428.6	453.6
75°	192.8	235.9	303.9	353.8	369.7
77.5°	142.9	183.7	238.1	276.7	283.5
80°	99.8	133.8	179.2	186.0	181.4
82.5°	63.5	88.4	113.4	115.7	115.7
85°	36.3	49.9	61.2	65.8	65.8
87.5°	13.6	18.1	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)