

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: P220004

Luminaire Tested: **Z3-WL-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-5L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5942.3 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

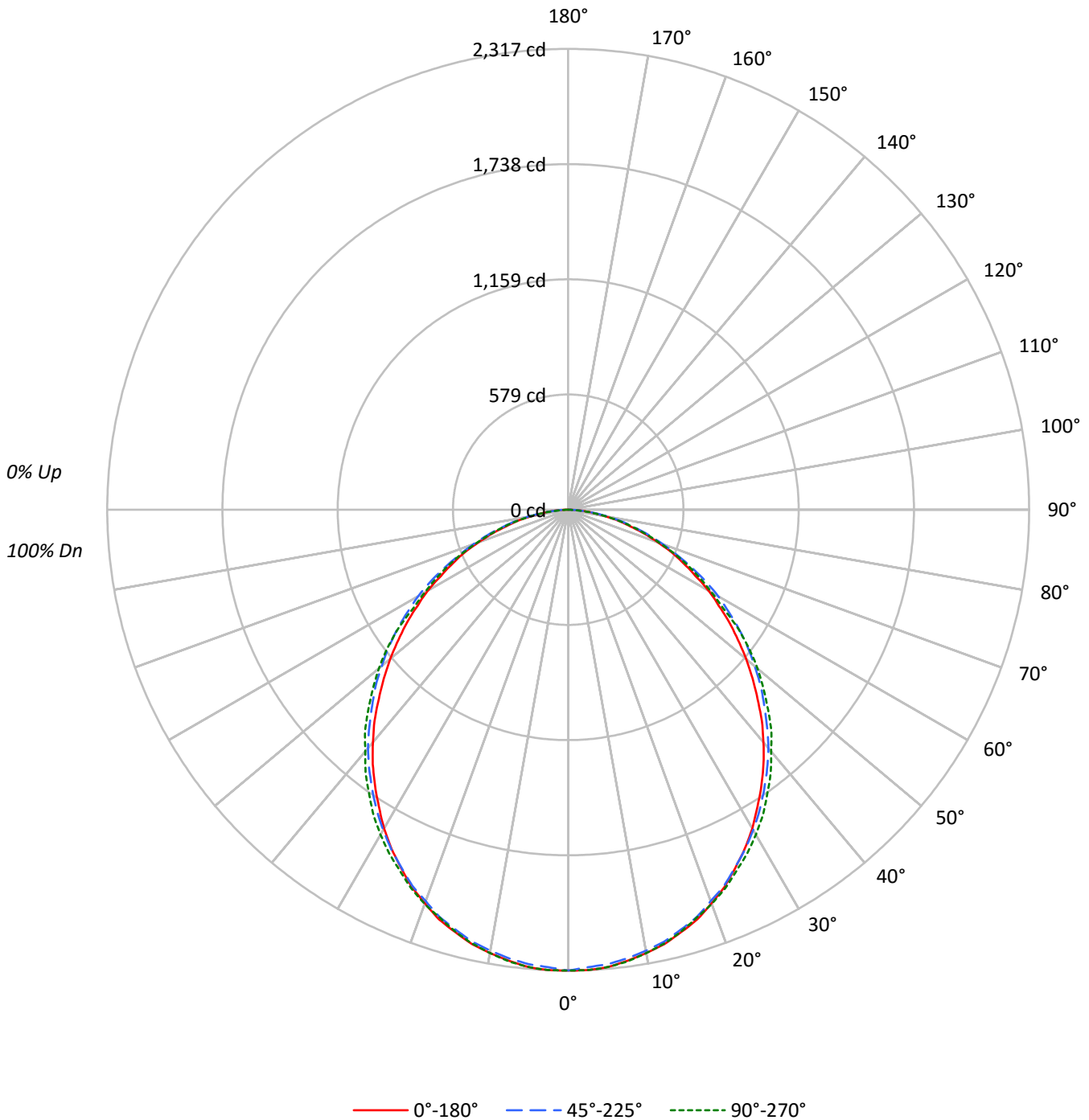
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6235	6235	6235
5°	6235	6195	6235
10°	6185	6152	6185
15°	6124	6091	6116
20°	6031	5997	6040
25°	5901	5892	5945
30°	5750	5778	5861
35°	5562	5640	5728
40°	5363	5499	5572
45°	5121	5302	5404
50°	4887	5123	5198
55°	4641	4920	4891
60°	4397	4684	4476
65°	4085	4331	4218
70°	3762	3973	3856
75°	3367	3583	3490
80°	2946	3177	2992
85°	2476	2384	2201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	3.7
10°-20°	618.6	10.4
20°-30°	918.0	15.4
30°-40°	1075.1	18.1
40°-50°	1072.8	18.1
50°-60°	922.1	15.5
60°-70°	661.9	11.1
70°-80°	363.7	6.1
80°-90°	91.5	1.5
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°	1755.1	29.5
0°-40°	2830.3	47.6
0°-60°	4825.2	81.2
0°-90°	5942.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5942.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2308	2305	2293	2308	2308	219
15°	2198	2195	2186	2198	2195	620
25°	1987	1987	1984	2002	2002	915
35°	1693	1699	1717	1741	1744	1059
45°	1346	1360	1393	1420	1420	1040
55°	989	1016	1049	1054	1043	884
65°	642	671	680	668	662	637
75°	324	348	345	345	336	347
85°	80	83	77	68	71	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2317.0	2317.0	2317.0	2317.0	2317.0
2.5°	2317.0	2314.0	2302.1	2317.0	2317.0
5°	2308.1	2305.1	2293.2	2308.1	2308.1
7.5°	2287.3	2287.3	2275.4	2287.3	2290.2
10°	2263.5	2263.5	2251.6	2266.5	2263.5
12.5°	2236.8	2230.8	2224.9	2236.8	2233.8
15°	2198.2	2195.2	2186.3	2198.2	2195.2
17.5°	2159.5	2153.6	2147.7	2156.6	2150.6
20°	2106.1	2103.1	2094.2	2109.0	2109.0
22.5°	2052.6	2049.6	2046.7	2058.5	2061.5
25°	1987.3	1987.3	1984.3	2002.1	2002.1
27.5°	1921.9	1921.9	1924.9	1945.7	1948.6
30°	1850.6	1850.6	1859.5	1883.3	1886.3
32.5°	1770.4	1776.4	1791.2	1817.9	1820.9
35°	1693.2	1699.1	1716.9	1740.7	1743.7
37.5°	1613.0	1618.9	1642.7	1666.4	1672.4
40°	1526.8	1532.8	1565.4	1586.2	1586.2
42.5°	1440.7	1449.6	1479.3	1506.0	1512.0
45°	1345.6	1360.5	1393.2	1419.9	1419.9
47.5°	1256.5	1277.3	1313.0	1336.7	1330.8
50°	1167.4	1188.2	1223.8	1244.6	1241.7
52.5°	1075.3	1099.1	1137.7	1152.5	1146.6
55°	989.2	1015.9	1048.6	1054.5	1042.6
57.5°	897.1	926.8	956.5	956.5	923.8
60°	816.9	840.6	870.4	837.7	831.7
62.5°	721.8	757.5	778.3	748.6	748.6
65°	641.6	671.3	680.2	668.4	662.4
67.5°	564.4	588.2	588.2	582.2	579.2
70°	478.2	505.0	505.0	496.1	490.1
72.5°	401.0	427.8	424.8	424.8	412.9
75°	323.8	347.5	344.6	344.6	335.7
77.5°	258.4	270.3	276.3	267.3	264.4
80°	190.1	202.0	205.0	196.1	193.1
82.5°	127.7	139.6	139.6	133.7	127.7
85°	80.2	83.2	77.2	68.3	71.3
87.5°	35.6	32.7	26.7	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)