

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: P220158

Luminaire Tested: **Z3-WG-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-6L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4286.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

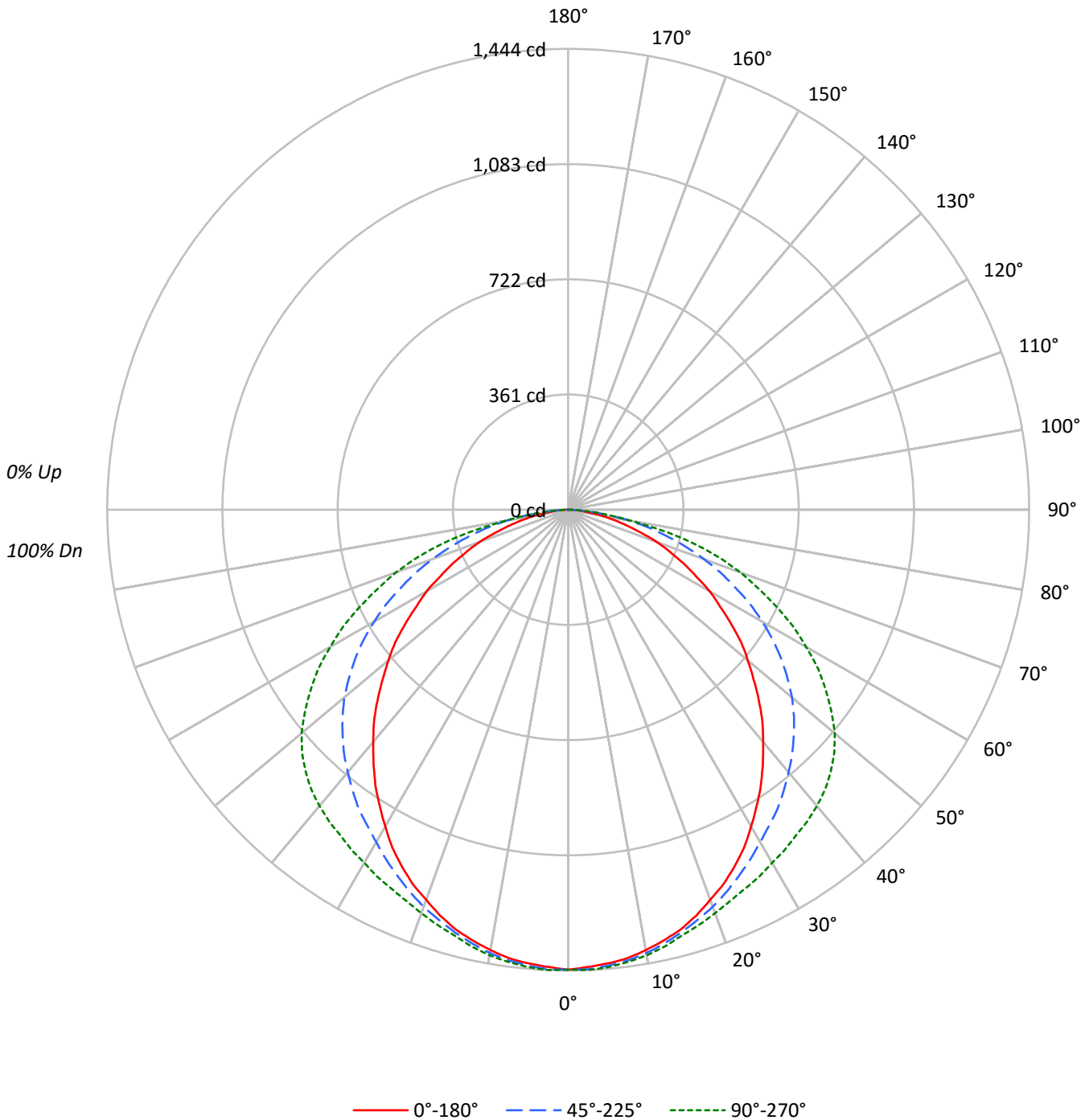
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3878	3878	3878
5°	3855	3874	3887
10°	3829	3855	3874
15°	3793	3819	3845
20°	3725	3792	3853
25°	3661	3758	3890
30°	3562	3736	3969
35°	3459	3758	4089
40°	3337	3772	4257
45°	3214	3802	4425
50°	3075	3830	4564
55°	2920	3820	4621
60°	2758	3778	4634
65°	2532	3680	4588
70°	2319	3552	4510
75°	1946	3332	4208
80°	1595	2972	3045
85°	1155	2022	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.2
10°-20°	386.9	9.0
20°-30°	585.4	13.7
30°-40°	717.4	16.7
40°-50°	772.0	18.0
50°-60°	723.6	16.9
60°-70°	563.7	13.2
70°-80°	326.0	7.6
80°-90°	74.9	1.7
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°	1108.5	25.9
0°-40°	1825.8	42.6
0°-60°	3321.3	77.5
0°-90°	4286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1427	1430	1434	1436	1439	135
15°	1362	1362	1371	1380	1380	383
25°	1233	1240	1266	1296	1310	567
35°	1053	1074	1144	1217	1245	657
45°	845	884	999	1116	1163	651
55°	622	690	814	940	985	557
65°	398	466	578	683	721	395
75°	187	243	320	381	405	202
85°	37	56	66	68	66	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	1434.2	1436.5	1441.2	1443.5	1443.5
5°	1427.1	1429.5	1434.2	1436.5	1438.8
7.5°	1417.8	1420.1	1424.8	1429.5	1429.5
10°	1401.4	1403.7	1410.8	1415.4	1417.8
12.5°	1382.7	1385.0	1392.0	1396.7	1401.4
15°	1361.6	1361.6	1371.0	1380.3	1380.3
17.5°	1333.6	1338.2	1347.6	1359.3	1364.0
20°	1300.8	1307.8	1324.2	1338.2	1345.3
22.5°	1270.4	1277.4	1296.1	1317.2	1326.5
25°	1233.0	1240.0	1265.7	1296.1	1310.2
27.5°	1193.2	1204.9	1235.3	1279.7	1296.1
30°	1146.4	1160.4	1202.5	1258.7	1277.4
32.5°	1099.6	1118.3	1172.1	1240.0	1263.4
35°	1052.8	1073.9	1144.1	1216.6	1244.7
37.5°	1001.3	1027.1	1109.0	1195.5	1230.6
40°	949.9	977.9	1073.9	1172.1	1211.9
42.5°	900.7	935.8	1038.8	1144.1	1190.8
45°	844.6	884.4	999.0	1116.0	1162.8
47.5°	788.4	837.6	959.2	1080.9	1130.0
50°	734.6	786.1	914.8	1041.1	1090.2
52.5°	683.2	737.0	865.6	992.0	1038.8
55°	622.3	690.2	814.2	940.5	985.0
57.5°	563.8	631.7	760.4	879.7	928.8
60°	512.4	570.9	701.9	816.5	861.0
62.5°	451.5	514.7	643.4	751.0	795.5
65°	397.7	465.6	577.9	683.2	720.6
67.5°	343.9	402.4	517.0	608.3	643.4
70°	294.8	348.6	451.5	535.8	573.2
72.5°	238.6	294.8	386.0	458.6	493.6
75°	187.2	243.3	320.5	381.4	404.7
77.5°	142.7	191.8	257.4	299.5	304.1
80°	102.9	140.4	191.8	203.5	196.5
82.5°	65.5	95.9	121.7	124.0	124.0
85°	37.4	56.1	65.5	67.8	65.5
87.5°	16.4	21.1	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)