

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: P220163

Luminaire Tested: **Z3-WD-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-6L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3980.7 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

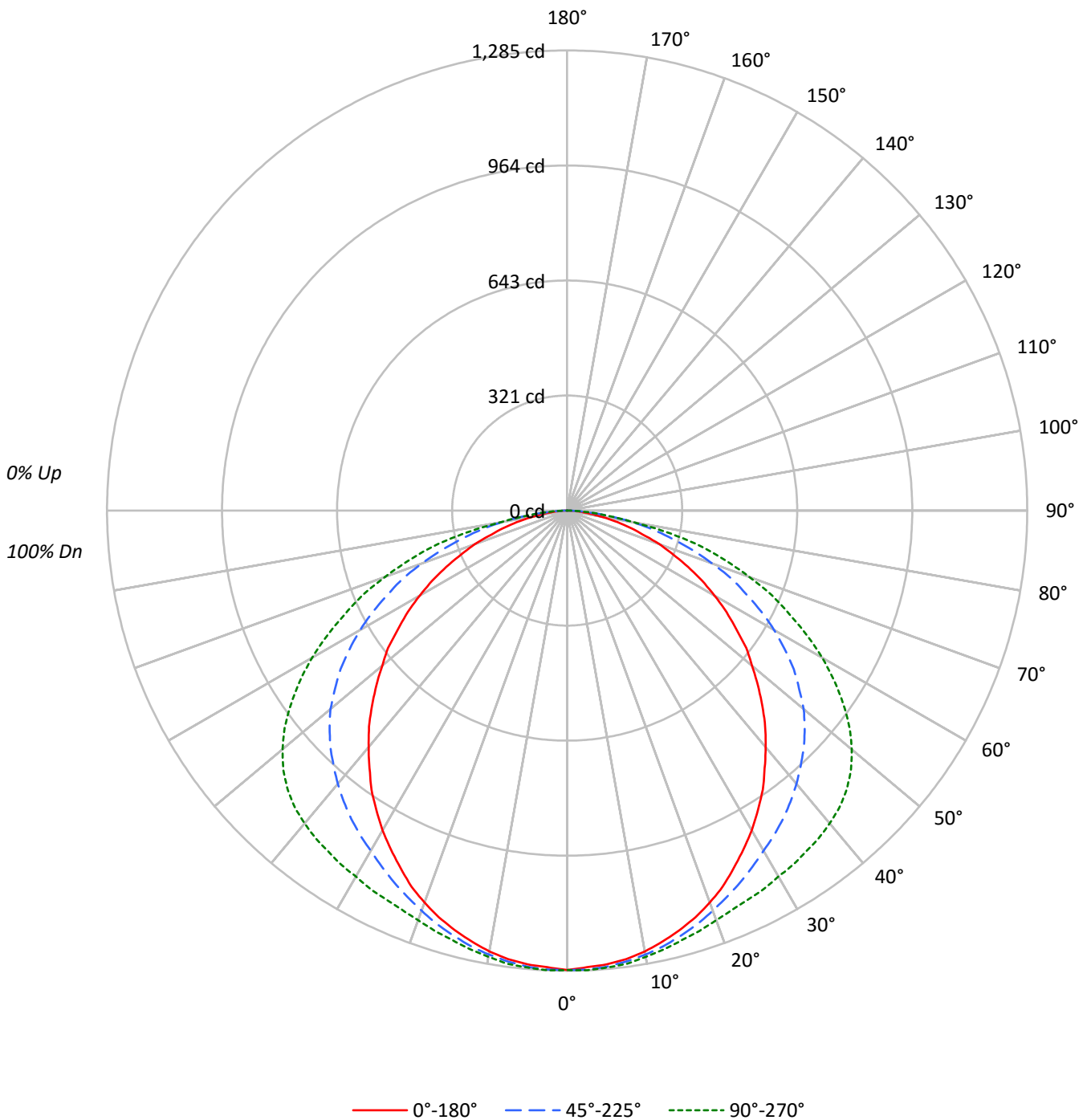
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3452	3452	3452
5°	3436	3454	3460
10°	3416	3440	3458
15°	3379	3422	3458
20°	3335	3404	3486
25°	3270	3400	3556
30°	3204	3408	3667
35°	3128	3452	3819
40°	3030	3499	4007
45°	2933	3557	4199
50°	2823	3611	4344
55°	2701	3626	4417
60°	2557	3594	4430
65°	2370	3513	4363
70°	2153	3393	4254
75°	1866	3164	4052
80°	1458	2850	2952
85°	1081	1961	2096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.0
10°-20°	346.8	8.7
20°-30°	529.6	13.3
30°-40°	659.6	16.6
40°-50°	721.2	18.1
50°-60°	684.0	17.2
60°-70°	535.8	13.5
70°-80°	309.8	7.8
80°-90°	72.6	1.8
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°	997.7	25.1
0°-40°	1657.3	41.6
0°-60°	3062.5	76.9
0°-90°	3980.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1272	1274	1278	1281	1281	121
15°	1213	1217	1228	1239	1241	342
25°	1101	1112	1145	1182	1198	507
35°	952	974	1051	1132	1162	594
45°	771	817	935	1055	1103	594
55°	576	646	773	895	941	516
65°	372	438	552	650	685	369
75°	180	228	304	363	390	190
85°	35	50	64	68	68	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1276.3	1278.5	1282.9	1285.1	1285.1
5°	1271.9	1274.1	1278.5	1280.7	1280.7
7.5°	1263.2	1265.4	1269.8	1274.1	1276.3
10°	1250.1	1252.2	1258.8	1265.4	1265.4
12.5°	1232.5	1236.9	1245.7	1252.2	1254.4
15°	1212.8	1217.2	1228.2	1239.1	1241.3
17.5°	1190.9	1197.5	1210.7	1223.8	1230.4
20°	1164.7	1169.1	1188.8	1208.5	1217.2
22.5°	1136.2	1142.8	1166.9	1195.3	1206.3
25°	1101.2	1112.1	1145.0	1182.2	1197.5
27.5°	1066.2	1081.5	1120.9	1171.2	1190.9
30°	1031.1	1046.5	1096.8	1158.1	1180.0
32.5°	991.7	1011.4	1074.9	1145.0	1173.4
35°	952.3	974.2	1050.8	1131.8	1162.5
37.5°	906.3	934.8	1024.6	1116.5	1153.7
40°	862.6	893.2	996.1	1099.0	1140.6
42.5°	818.8	853.8	965.5	1079.3	1125.3
45°	770.6	816.6	934.8	1055.2	1103.4
47.5°	722.4	775.0	899.8	1026.8	1074.9
50°	674.3	729.0	862.6	991.7	1037.7
52.5°	630.5	685.2	816.6	945.8	993.9
55°	575.8	645.8	772.8	895.4	941.4
57.5°	527.6	591.1	720.3	840.7	884.5
60°	475.1	538.6	667.7	781.6	823.2
62.5°	424.7	486.0	610.8	718.1	755.3
65°	372.2	437.8	551.7	650.2	685.2
67.5°	319.6	380.9	497.0	582.3	619.6
70°	273.7	330.6	431.3	510.1	540.7
72.5°	221.1	275.8	367.8	437.8	464.1
75°	179.5	227.7	304.3	363.4	389.7
77.5°	135.7	181.7	245.2	284.6	295.5
80°	94.1	133.5	183.9	199.2	190.5
82.5°	61.3	91.9	118.2	122.6	120.4
85°	35.0	50.4	63.5	67.9	67.9
87.5°	15.3	19.7	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)