

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: P220155

Luminaire Tested: **Z3-WG-3L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220155
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-3L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.3 lumens
Efficiency: N/A
Efficacy: 113.8 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

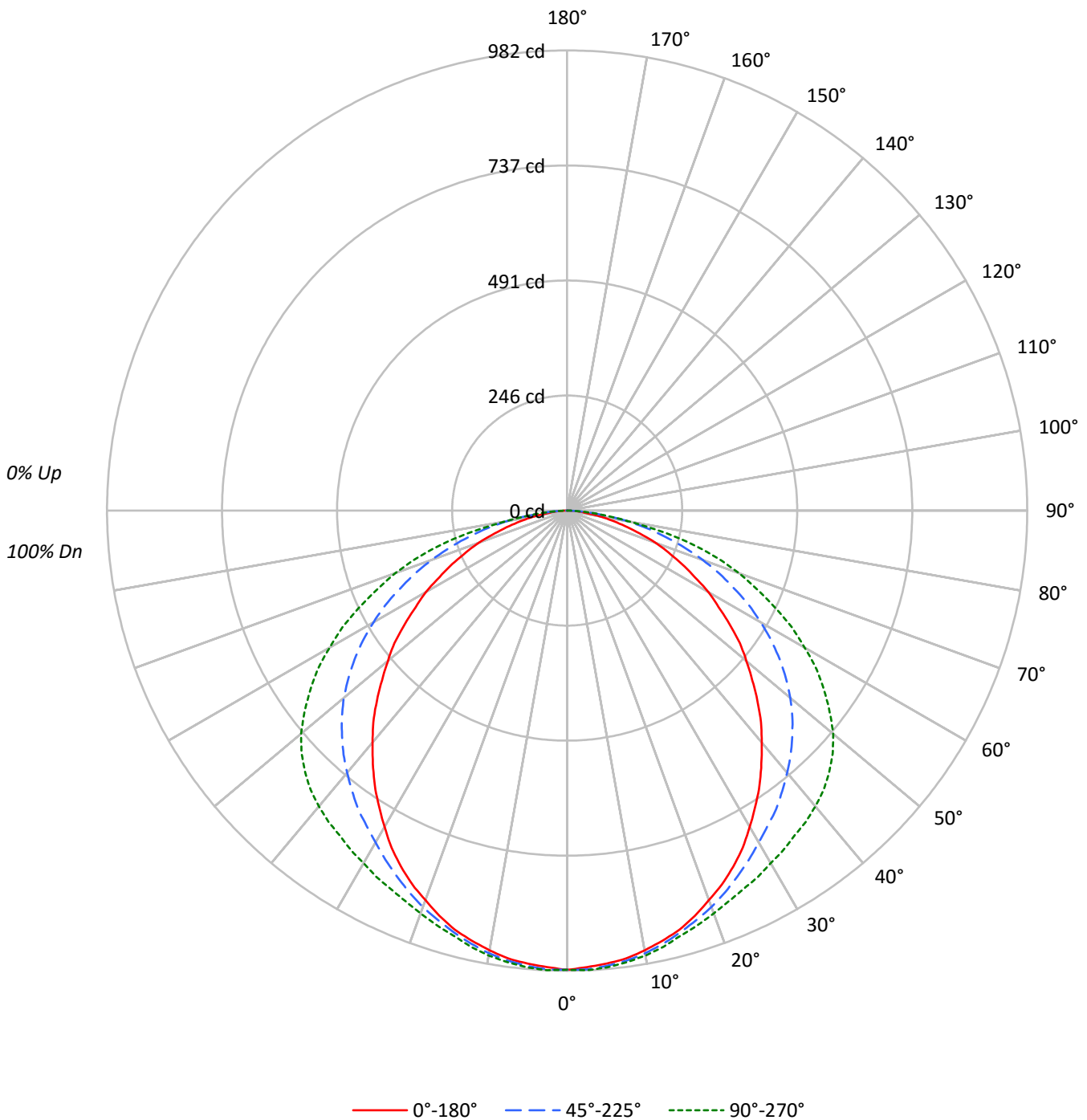
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2637	2637	2637
5°	2621	2634	2643
10°	2604	2621	2634
15°	2579	2597	2615
20°	2533	2578	2619
25°	2489	2555	2645
30°	2422	2541	2699
35°	2352	2555	2780
40°	2269	2565	2895
45°	2186	2585	3009
50°	2091	2604	3103
55°	1985	2597	3142
60°	1875	2569	3151
65°	1722	2502	3120
70°	1577	2415	3067
75°	1324	2266	2861
80°	1085	2021	2070
85°	787	1374	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.2
10°-20°	263.1	9.0
20°-30°	398.1	13.7
30°-40°	487.8	16.7
40°-50°	524.9	18.0
50°-60°	492.0	16.9
60°-70°	383.3	13.2
70°-80°	221.7	7.6
80°-90°	50.9	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°	753.7	25.9
0°-40°	1241.5	42.6
0°-60°	2258.4	77.5
0°-90°	2914.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	970	972	975	977	978	92
15°	926	926	932	939	939	261
25°	838	843	861	881	891	386
35°	716	730	778	827	846	447
45°	574	601	679	759	791	443
55°	423	469	554	640	670	379
65°	270	317	393	464	490	268
75°	127	165	218	259	275	137
85°	26	38	44	46	44	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.0	980.0	980.0	980.0	980.0
2.5°	975.2	976.8	980.0	981.6	981.6
5°	970.4	972.0	975.2	976.8	978.4
7.5°	964.1	965.6	968.8	972.0	972.0
10°	952.9	954.5	959.3	962.5	964.1
12.5°	940.2	941.8	946.6	949.7	952.9
15°	925.9	925.9	932.2	938.6	938.6
17.5°	906.8	910.0	916.3	924.3	927.5
20°	884.5	889.3	900.4	910.0	914.7
22.5°	863.8	868.6	881.3	895.6	902.0
25°	838.4	843.1	860.6	881.3	890.9
27.5°	811.3	819.3	840.0	870.2	881.3
30°	779.5	789.1	817.7	855.9	868.6
32.5°	747.7	760.4	797.0	843.1	859.1
35°	715.9	730.2	777.9	827.2	846.3
37.5°	680.9	698.4	754.1	812.9	836.8
40°	645.9	665.0	730.2	797.0	824.1
42.5°	612.5	636.3	706.3	777.9	809.7
45°	574.3	601.3	679.3	758.8	790.7
47.5°	536.1	569.5	652.2	735.0	768.4
50°	499.5	534.5	622.0	707.9	741.3
52.5°	464.5	501.1	588.6	674.5	706.3
55°	423.2	469.3	553.6	639.5	669.7
57.5°	383.4	429.5	517.0	598.2	631.6
60°	348.4	388.2	477.3	555.2	585.4
62.5°	307.0	350.0	437.5	510.7	540.9
65°	270.4	316.6	392.9	464.5	490.0
67.5°	233.9	273.6	351.6	413.6	437.5
70°	200.4	237.0	307.0	364.3	389.8
72.5°	162.3	200.4	262.5	311.8	335.7
75°	127.3	165.4	217.9	259.3	275.2
77.5°	97.0	130.4	175.0	203.6	206.8
80°	70.0	95.5	130.4	138.4	133.6
82.5°	44.5	65.2	82.7	84.3	84.3
85°	25.5	38.2	44.5	46.1	44.5
87.5°	11.1	14.3	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)