

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: P220272

Luminaire Tested: **Z3-WG-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-1L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.3 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

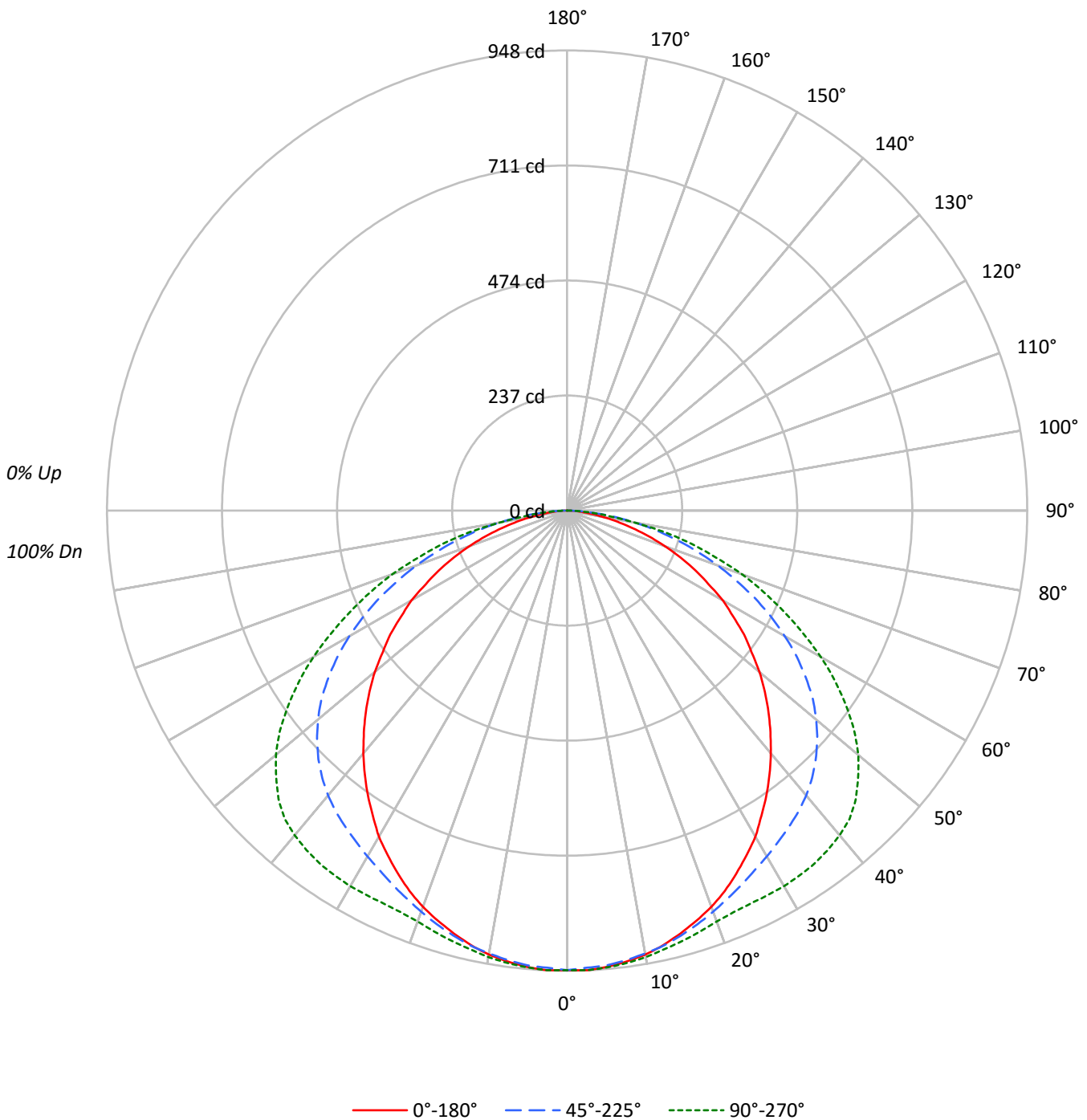
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1274	1274	1274
5°	1274	1270	1276
10°	1269	1266	1276
15°	1256	1262	1279
20°	1244	1259	1290
25°	1225	1263	1326
30°	1205	1278	1388
35°	1176	1308	1459
40°	1147	1346	1534
45°	1116	1379	1600
50°	1083	1403	1640
55°	1043	1409	1647
60°	998	1395	1625
65°	929	1358	1569
70°	841	1299	1505
75°	717	1211	1383
80°	580	1093	1068
85°	395	775	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.0
10°-20°	256.6	8.5
20°-30°	395.3	13.1
30°-40°	500.4	16.6
40°-50°	553.2	18.4
50°-60°	524.0	17.4
60°-70°	405.9	13.5
70°-80°	231.3	7.7
80°-90°	56.0	1.9
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°	741.5	24.6
0°-40°	1241.9	41.2
0°-60°	2319.1	77.0
0°-90°	3012.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	944	943	940	944	945	90
15°	902	904	906	915	918	254
25°	825	831	851	882	893	380
35°	716	734	796	864	888	448
45°	587	624	725	810	841	452
55°	445	498	601	678	702	396
65°	292	343	426	481	493	288
75°	138	182	233	259	266	149
85°	26	47	50	49	49	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	947.9	945.8	942.6	946.8	947.9
5°	943.6	942.6	940.4	943.6	944.7
7.5°	937.2	936.2	934.0	939.4	940.4
10°	928.7	928.7	926.5	931.9	934.0
12.5°	916.9	918.0	918.0	923.3	925.5
15°	902.0	904.1	906.2	914.8	918.0
17.5°	885.9	889.1	893.4	904.1	909.4
20°	868.8	871.0	879.5	895.5	900.9
22.5°	848.5	851.7	864.6	887.0	895.5
25°	825.0	831.4	850.7	881.7	893.4
27.5°	800.4	807.9	835.7	876.3	893.4
30°	775.9	784.4	822.9	873.1	893.4
32.5°	744.9	759.8	809.0	869.9	891.3
35°	716.0	734.2	796.2	863.5	888.1
37.5°	685.0	707.5	782.3	854.9	881.7
40°	653.0	680.7	766.2	844.2	873.1
42.5°	619.8	653.0	747.0	830.4	861.3
45°	586.7	624.1	724.6	810.1	841.0
47.5°	552.5	594.2	698.9	785.5	813.3
50°	517.2	563.2	670.1	755.5	783.3
52.5°	478.8	532.2	638.0	719.2	745.9
55°	444.6	498.0	600.6	677.5	702.1
57.5°	405.0	464.9	561.1	634.8	655.1
60°	370.8	423.2	518.3	585.6	603.8
62.5°	328.1	387.9	473.4	534.3	548.2
65°	291.7	343.0	426.4	480.9	492.7
67.5°	252.2	302.4	377.2	425.3	438.2
70°	213.7	259.7	330.2	368.7	382.6
72.5°	176.3	220.1	281.1	314.2	320.6
75°	137.9	181.7	233.0	258.6	266.1
77.5°	105.8	142.1	187.0	207.3	206.3
80°	74.8	106.9	141.1	144.3	137.9
82.5°	48.1	75.9	95.1	87.6	87.6
85°	25.6	47.0	50.2	49.2	49.2
87.5°	9.6	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)