

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: P220267

Luminaire Tested: **Z3-WG-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220267
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-1L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.6 lumens
Efficiency: N/A
Efficacy: 125.6 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

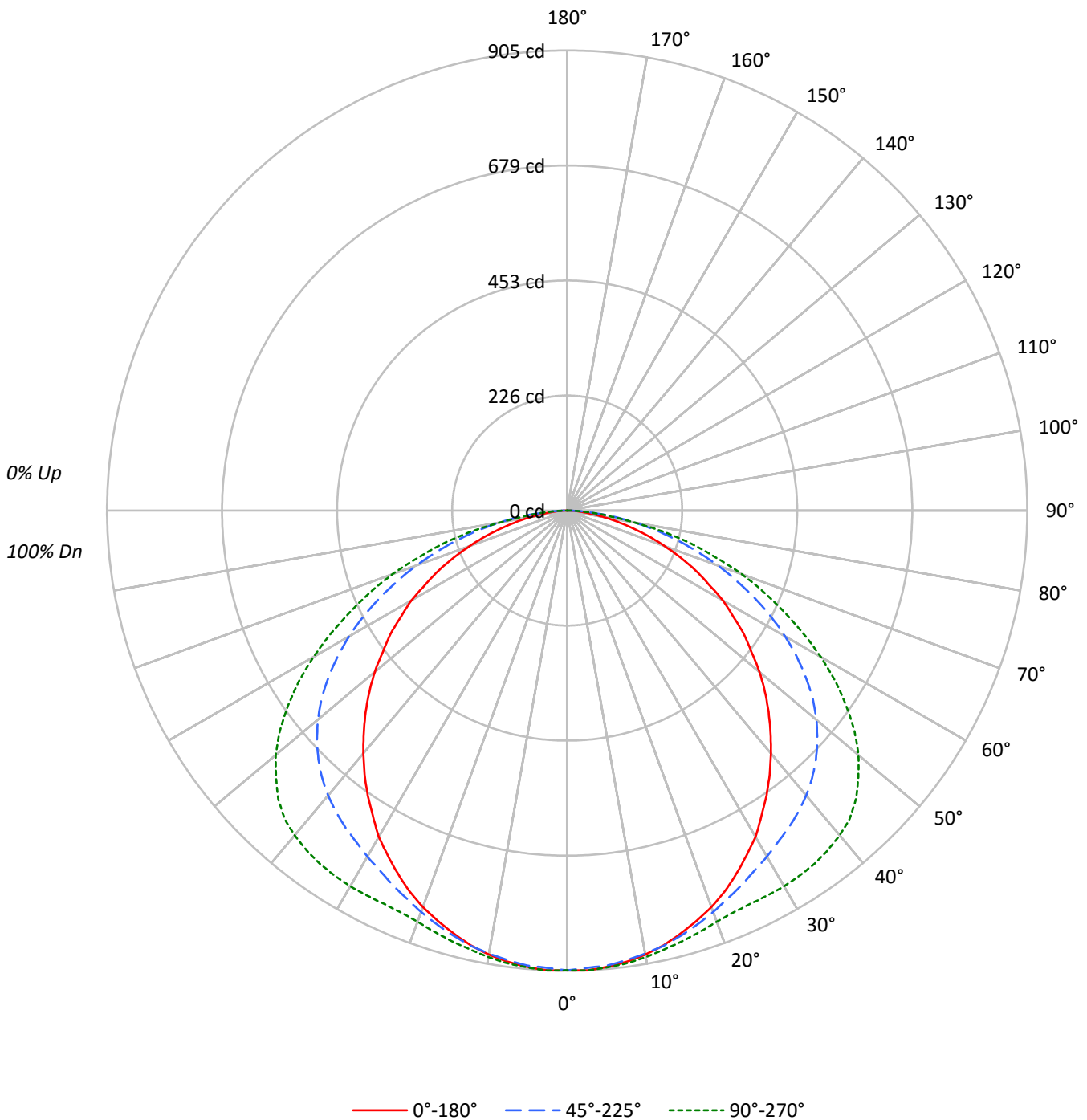
Input Watts (W): 22.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1217	1217	1217
5°	1217	1213	1218
10°	1212	1209	1219
15°	1200	1205	1221
20°	1188	1203	1232
25°	1170	1206	1267
30°	1151	1221	1326
35°	1123	1249	1393
40°	1095	1285	1464
45°	1066	1317	1528
50°	1034	1339	1566
55°	996	1345	1573
60°	953	1332	1552
65°	887	1296	1498
70°	803	1240	1437
75°	684	1157	1321
80°	553	1044	1020
85°	378	741	724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.0
10°-20°	245.1	8.5
20°-30°	377.4	13.1
30°-40°	477.9	16.6
40°-50°	528.3	18.4
50°-60°	500.4	17.4
60°-70°	387.6	13.5
70°-80°	220.9	7.7
80°-90°	53.5	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°	708.0	24.6
0°-40°	1185.9	41.2
0°-60°	2214.6	77.0
0°-90°	2876.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	901	900	898	901	902	86
15°	861	863	865	874	877	243
25°	788	794	812	842	853	363
35°	684	701	760	825	848	428
45°	560	596	692	774	803	432
55°	424	476	574	647	670	378
65°	279	328	407	459	470	275
75°	132	174	222	247	254	142
85°	24	45	48	47	47	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.2	904.2	904.2	904.2	904.2
2.5°	905.2	903.2	900.1	904.2	905.2
5°	901.1	900.1	898.1	901.1	902.1
7.5°	895.0	894.0	891.9	897.0	898.1
10°	886.8	886.8	884.8	889.9	891.9
12.5°	875.6	876.6	876.6	881.7	883.8
15°	861.3	863.4	865.4	873.6	876.6
17.5°	846.0	849.1	853.2	863.4	868.5
20°	829.7	831.7	839.9	855.2	860.3
22.5°	810.3	813.4	825.6	847.0	855.2
25°	787.8	794.0	812.3	841.9	853.2
27.5°	764.4	771.5	798.0	836.8	853.2
30°	740.9	749.1	785.8	833.8	853.2
32.5°	711.3	725.6	772.5	830.7	851.1
35°	683.7	701.1	760.3	824.6	848.1
37.5°	654.2	675.6	747.0	816.4	841.9
40°	623.5	650.1	731.7	806.2	833.8
42.5°	591.9	623.5	713.3	792.9	822.5
45°	560.3	596.0	691.9	773.6	803.2
47.5°	527.6	567.4	667.4	750.1	776.6
50°	493.9	537.8	639.9	721.5	748.0
52.5°	457.2	508.2	609.3	686.8	712.3
55°	424.5	475.6	573.5	647.0	670.5
57.5°	386.8	443.9	535.8	606.2	625.6
60°	354.1	404.1	495.0	559.2	576.6
62.5°	313.3	370.4	452.1	510.3	523.5
65°	278.6	327.6	407.2	459.2	470.5
67.5°	240.8	288.8	360.2	406.2	418.4
70°	204.1	248.0	315.3	352.1	365.3
72.5°	168.4	210.2	268.4	300.0	306.2
75°	131.6	173.5	222.5	247.0	254.1
77.5°	101.0	135.7	178.6	198.0	197.0
80°	71.4	102.1	134.7	137.8	131.6
82.5°	45.9	72.5	90.8	83.7	83.7
85°	24.5	44.9	48.0	46.9	46.9
87.5°	9.2	16.3	16.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)