

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: P220290

Luminaire Tested: **Z3-WD-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-5L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

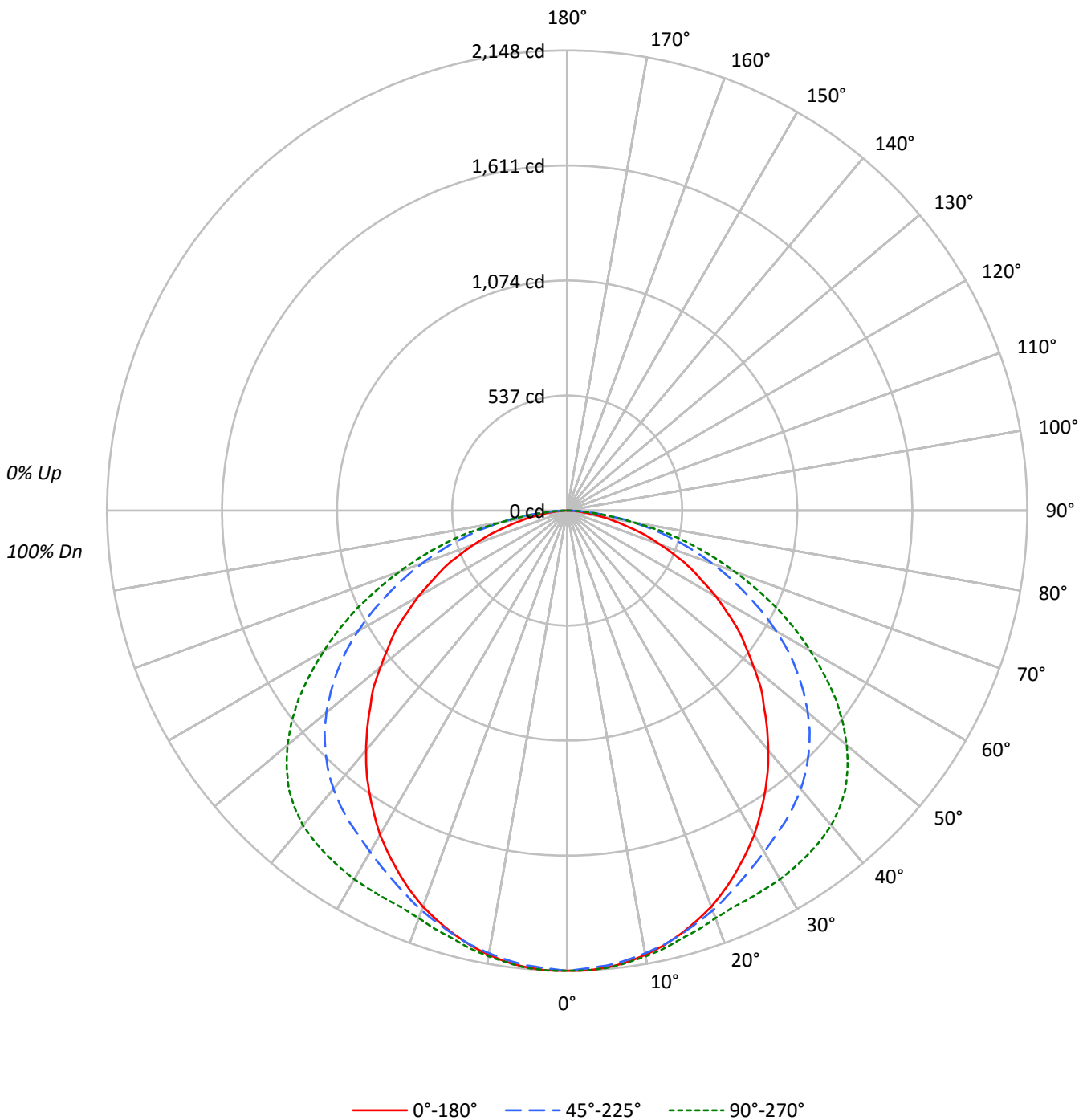
Lumens per Lamp: N/A
Luminaire Lumens: 6661.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48					48			
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2891	2891	2891
5°	2892	2879	2895
10°	2877	2867	2886
15°	2850	2854	2880
20°	2818	2845	2899
25°	2766	2837	2971
30°	2714	2858	3087
35°	2644	2913	3221
40°	2564	2981	3369
45°	2475	3035	3496
50°	2380	3071	3568
55°	2294	3074	3586
60°	2159	3034	3532
65°	2025	2940	3446
70°	1812	2829	3268
75°	1542	2665	3048
80°	1232	2391	2391
85°	880	1723	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	3.0
10°-20°	580.1	8.7
20°-30°	888.4	13.3
30°-40°	1113.8	16.7
40°-50°	1217.8	18.3
50°-60°	1143.4	17.2
60°-70°	882.9	13.3
70°-80°	507.9	7.6
80°-90°	124.5	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°	1671.5	25.1
0°-40°	2785.3	41.8
0°-60°	5146.5	77.3
0°-90°	6661.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6661.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2141	2136	2132	2139	2144	203
15°	2046	2049	2049	2065	2068	577
25°	1863	1875	1911	1973	2001	859
35°	1609	1645	1773	1913	1961	1006
45°	1301	1382	1595	1776	1837	1005
55°	978	1090	1310	1479	1529	869
65°	636	745	923	1044	1082	624
75°	297	396	513	574	586	321
85°	57	104	112	107	107	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2148.3	2148.3	2148.3	2148.3	2148.3
2.5°	2148.3	2145.9	2138.8	2145.9	2148.3
5°	2141.1	2136.4	2131.6	2138.8	2143.5
7.5°	2126.9	2124.5	2117.4	2129.3	2129.3
10°	2105.5	2103.2	2098.4	2110.3	2112.6
12.5°	2079.4	2077.0	2077.0	2091.3	2093.7
15°	2046.2	2048.6	2048.6	2065.2	2067.5
17.5°	2008.2	2008.2	2017.7	2039.1	2048.6
20°	1967.8	1970.2	1986.8	2012.9	2024.8
22.5°	1918.0	1927.5	1948.9	1991.6	2008.2
25°	1863.4	1875.3	1910.9	1972.6	2001.1
27.5°	1806.4	1823.0	1875.3	1958.4	1994.0
30°	1747.1	1768.5	1839.7	1946.5	1986.8
32.5°	1678.2	1706.7	1804.1	1929.9	1975.0
35°	1609.4	1645.0	1773.2	1913.3	1960.7
37.5°	1538.2	1578.6	1737.6	1887.1	1941.7
40°	1459.9	1516.8	1697.2	1858.7	1918.0
42.5°	1381.5	1450.4	1649.8	1823.0	1882.4
45°	1300.8	1381.5	1595.2	1775.6	1837.3
47.5°	1227.2	1312.7	1535.8	1716.2	1775.6
50°	1137.0	1243.9	1467.0	1647.4	1704.4
52.5°	1053.9	1170.3	1391.0	1569.1	1621.3
55°	978.0	1089.6	1310.3	1478.9	1528.7
57.5°	885.4	1006.5	1224.9	1381.5	1421.9
60°	802.3	921.0	1127.5	1272.3	1312.7
62.5°	709.8	842.7	1027.8	1163.1	1198.7
65°	636.2	745.4	923.4	1044.5	1082.4
67.5°	546.0	655.2	821.3	928.1	954.3
70°	460.5	565.0	719.2	809.5	830.8
72.5°	384.5	477.1	617.2	690.8	709.8
75°	296.7	396.4	512.7	574.5	586.3
77.5°	225.5	313.3	413.0	453.4	462.9
80°	159.0	239.7	308.6	325.2	308.6
82.5°	102.1	168.5	211.3	201.8	194.6
85°	57.0	104.4	111.6	106.8	106.8
87.5°	23.7	38.0	38.0	35.6	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)