

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: P220266

Luminaire Tested: **Z3-WG-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220266  
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-5L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6261.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

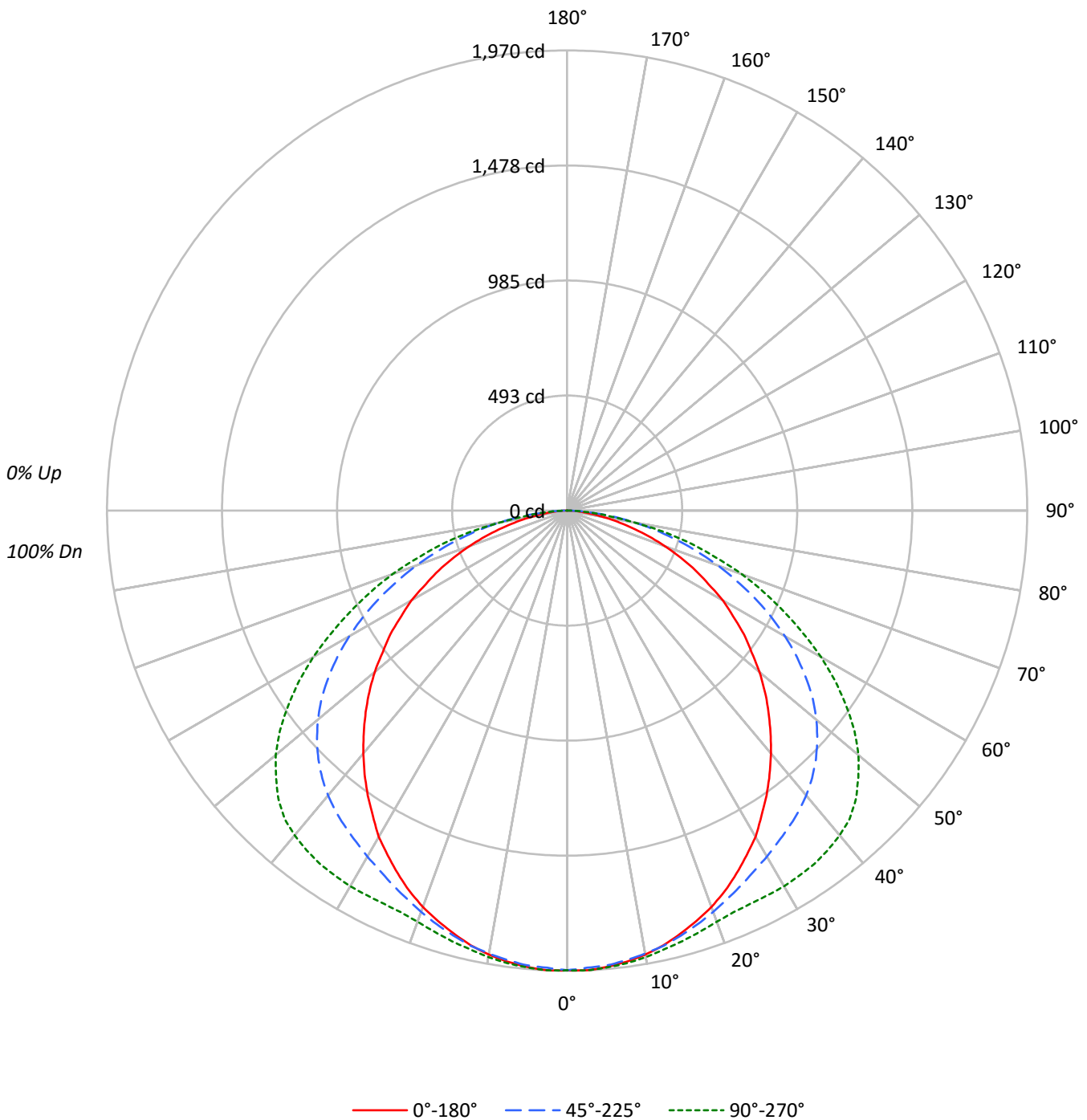
Input Watts (W): 58.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68					68			
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36					36			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22					22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2648	2648	2648
5°	2649	2640	2652
10°	2637	2631	2652
15°	2611	2624	2658
20°	2586	2618	2681
25°	2546	2625	2757
30°	2505	2657	2885
35°	2444	2718	3032
40°	2384	2797	3187
45°	2320	2866	3326
50°	2250	2915	3408
55°	2168	2928	3423
60°	2074	2899	3377
65°	1931	2822	3260
70°	1747	2700	3128
75°	1489	2517	2875
80°	1205	2272	2220
85°	823	1612	1578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	3.0
10°-20°	533.4	8.5
20°-30°	821.5	13.1
30°-40°	1040.1	16.6
40°-50°	1149.8	18.4
50°-60°	1089.1	17.4
60°-70°	843.7	13.5
70°-80°	480.8	7.7
80°-90°	116.5	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°	1541.1	24.6
0°-40°	2581.2	41.2
0°-60°	4820.1	77.0
0°-90°	6261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1961	1959	1955	1961	1964	186
15°	1875	1879	1884	1901	1908	529
25°	1715	1728	1768	1832	1857	790
35°	1488	1526	1655	1795	1846	931
45°	1220	1297	1506	1684	1748	940
55°	924	1035	1248	1408	1459	824
65°	606	713	886	1000	1024	598
75°	286	378	484	538	553	309
85°	53	98	104	102	102	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1968.0	1968.0	1968.0	1968.0	1968.0
2.5°	1970.2	1965.8	1959.1	1968.0	1970.2
5°	1961.3	1959.1	1954.7	1961.3	1963.6
7.5°	1948.0	1945.8	1941.4	1952.5	1954.7
10°	1930.2	1930.2	1925.8	1936.9	1941.4
12.5°	1905.8	1908.0	1908.0	1919.1	1923.6
15°	1874.7	1879.2	1883.6	1901.4	1908.0
17.5°	1841.4	1848.1	1856.9	1879.2	1890.3
20°	1805.9	1810.3	1828.1	1861.4	1872.5
22.5°	1763.7	1770.3	1797.0	1843.6	1861.4
25°	1714.8	1728.1	1768.1	1832.5	1856.9
27.5°	1663.7	1679.2	1737.0	1821.4	1856.9
30°	1612.6	1630.4	1710.3	1814.7	1856.9
32.5°	1548.2	1579.3	1681.5	1808.1	1852.5
35°	1488.2	1526.0	1654.8	1794.8	1845.8
37.5°	1423.8	1470.5	1625.9	1777.0	1832.5
40°	1357.2	1414.9	1592.6	1754.8	1814.7
42.5°	1288.3	1357.2	1552.6	1725.9	1790.3
45°	1219.5	1297.2	1506.0	1683.7	1748.1
47.5°	1148.4	1235.0	1452.7	1632.6	1690.4
50°	1075.1	1170.6	1392.7	1570.4	1628.2
52.5°	995.1	1106.2	1326.1	1494.9	1550.4
55°	924.0	1035.1	1248.3	1408.3	1459.3
57.5°	841.8	966.2	1166.1	1319.4	1361.6
60°	770.8	879.6	1077.3	1217.2	1255.0
62.5°	681.9	806.3	984.0	1110.6	1139.5
65°	606.4	713.0	886.3	999.6	1024.0
67.5°	524.2	628.6	784.1	884.0	910.7
70°	444.2	539.8	686.4	766.3	795.2
72.5°	366.5	457.6	584.2	653.0	666.4
75°	286.5	377.6	484.2	537.5	553.1
77.5°	219.9	295.4	388.7	430.9	428.7
80°	155.5	222.1	293.2	299.9	286.5
82.5°	100.0	157.7	197.7	182.1	182.1
85°	53.3	97.7	104.4	102.2	102.2
87.5°	20.0	35.5	35.5	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)