

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: P220028

Luminaire Tested: **Z3-WG-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-5L40-LD5-UNV-14
Description: CLASS Z3 1X4 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

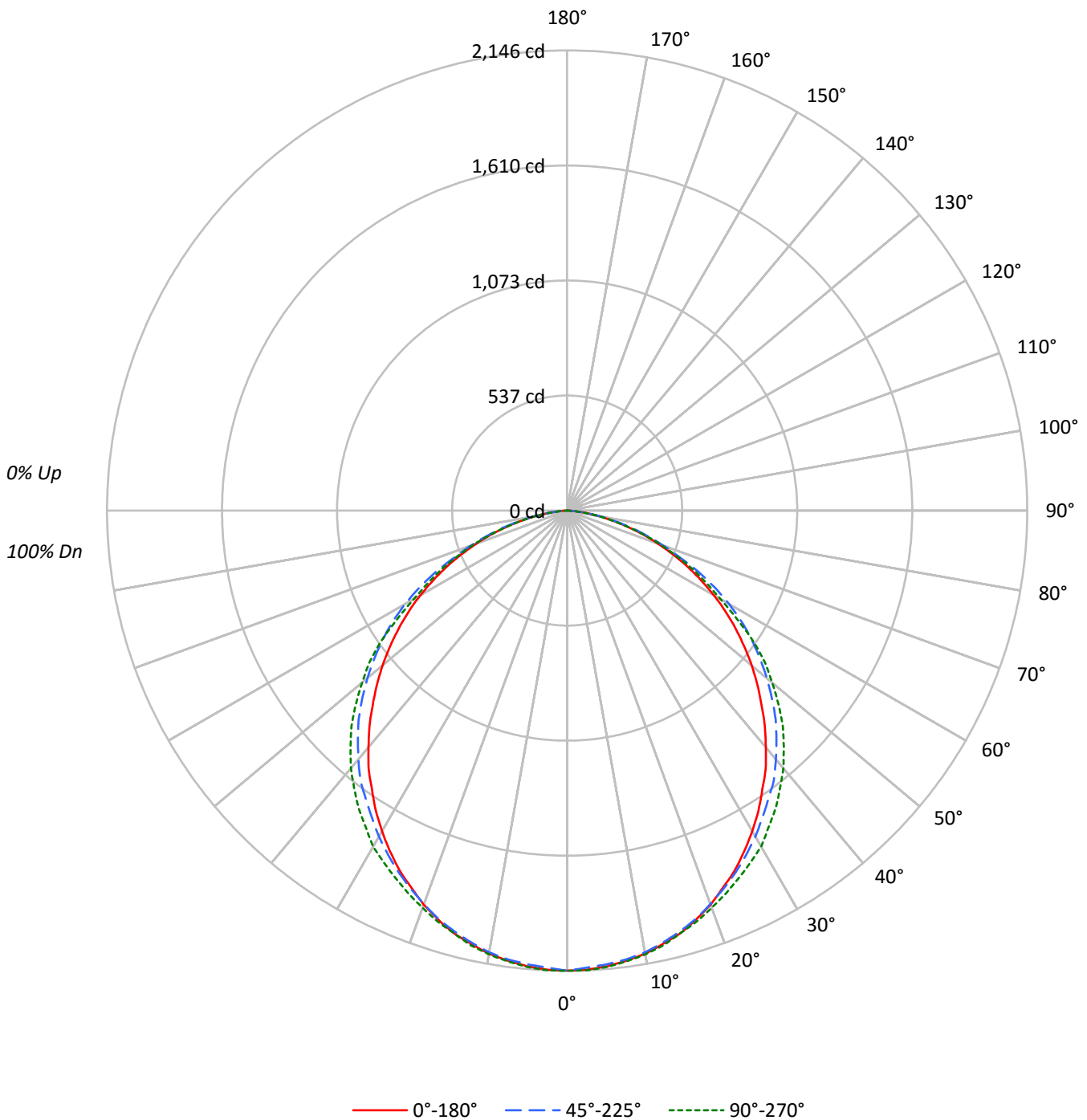
Lumens per Lamp: N/A
Luminaire Lumens: 5666.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54
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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5775	5775	5775
5°	5762	5737	5771
10°	5734	5716	5742
15°	5687	5660	5687
20°	5600	5591	5645
25°	5495	5523	5618
30°	5366	5455	5622
35°	5214	5381	5569
40°	5063	5319	5509
45°	4881	5231	5412
50°	4705	5090	5223
55°	4498	4929	4959
60°	4254	4698	4442
65°	3941	4285	4103
70°	3547	3747	3647
75°	3004	3201	3037
80°	2362	2459	2263
85°	1568	1470	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	3.6
10°-20°	574.9	10.1
20°-30°	860.6	15.2
30°-40°	1027.0	18.1
40°-50°	1049.0	18.5
50°-60°	918.9	16.2
60°-70°	645.9	11.4
70°-80°	324.4	5.7
80°-90°	63.7	1.1
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°	1637.9	28.9
0°-40°	2665.0	47.0
0°-60°	4632.8	81.8
0°-90°	5666.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5666.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2133	2133	2124	2136	2136	202
15°	2041	2038	2032	2044	2041	575
25°	1851	1854	1860	1886	1892	851
35°	1587	1600	1638	1682	1695	994
45°	1282	1308	1374	1413	1422	990
55°	959	1006	1051	1067	1057	857
65°	619	657	673	648	644	613
75°	289	317	308	298	292	310
85°	51	54	48	41	38	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2145.9	2145.9	2145.9	2145.9	2145.9
2.5°	2142.8	2142.8	2133.2	2145.9	2145.9
5°	2133.2	2133.2	2123.7	2136.4	2136.4
7.5°	2117.4	2117.4	2111.0	2120.5	2120.5
10°	2098.3	2098.3	2092.0	2101.5	2101.5
12.5°	2069.8	2069.8	2063.4	2072.9	2076.1
15°	2041.2	2038.0	2031.7	2044.4	2041.2
17.5°	1999.9	1999.9	1996.7	2009.4	2009.4
20°	1955.5	1958.6	1952.3	1968.2	1971.3
22.5°	1901.5	1904.7	1907.9	1926.9	1933.2
25°	1850.7	1853.9	1860.2	1885.6	1892.0
27.5°	1790.4	1796.7	1809.4	1838.0	1850.7
30°	1726.9	1736.4	1755.5	1793.6	1809.4
32.5°	1660.2	1672.9	1695.2	1742.8	1749.1
35°	1587.2	1599.9	1638.0	1682.5	1695.2
37.5°	1520.6	1533.3	1584.1	1622.2	1631.7
40°	1441.2	1460.3	1514.2	1555.5	1568.2
42.5°	1365.0	1384.1	1444.4	1485.6	1495.2
45°	1282.5	1307.9	1374.5	1412.6	1422.2
47.5°	1203.1	1231.7	1295.2	1330.1	1336.5
50°	1123.8	1155.5	1215.8	1250.7	1247.6
52.5°	1041.2	1076.1	1133.3	1161.9	1161.9
55°	958.7	1006.3	1050.7	1066.6	1057.1
57.5°	876.2	917.4	965.0	965.0	936.5
60°	790.4	831.7	873.0	847.6	825.4
62.5°	704.7	746.0	774.6	736.5	730.1
65°	619.0	657.1	673.0	647.6	644.4
67.5°	533.3	571.4	565.1	561.9	549.2
70°	450.8	485.7	476.2	469.8	463.5
72.5°	371.4	403.2	390.5	380.9	377.8
75°	288.9	317.4	307.9	298.4	292.1
77.5°	215.9	234.9	231.7	222.2	215.9
80°	152.4	165.1	158.7	152.4	146.0
82.5°	92.1	104.8	98.4	88.9	85.7
85°	50.8	54.0	47.6	41.3	38.1
87.5°	19.0	15.9	12.7	12.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)