

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: P220265

Luminaire Tested: **Z3-WG-4L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220265
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-4L30-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

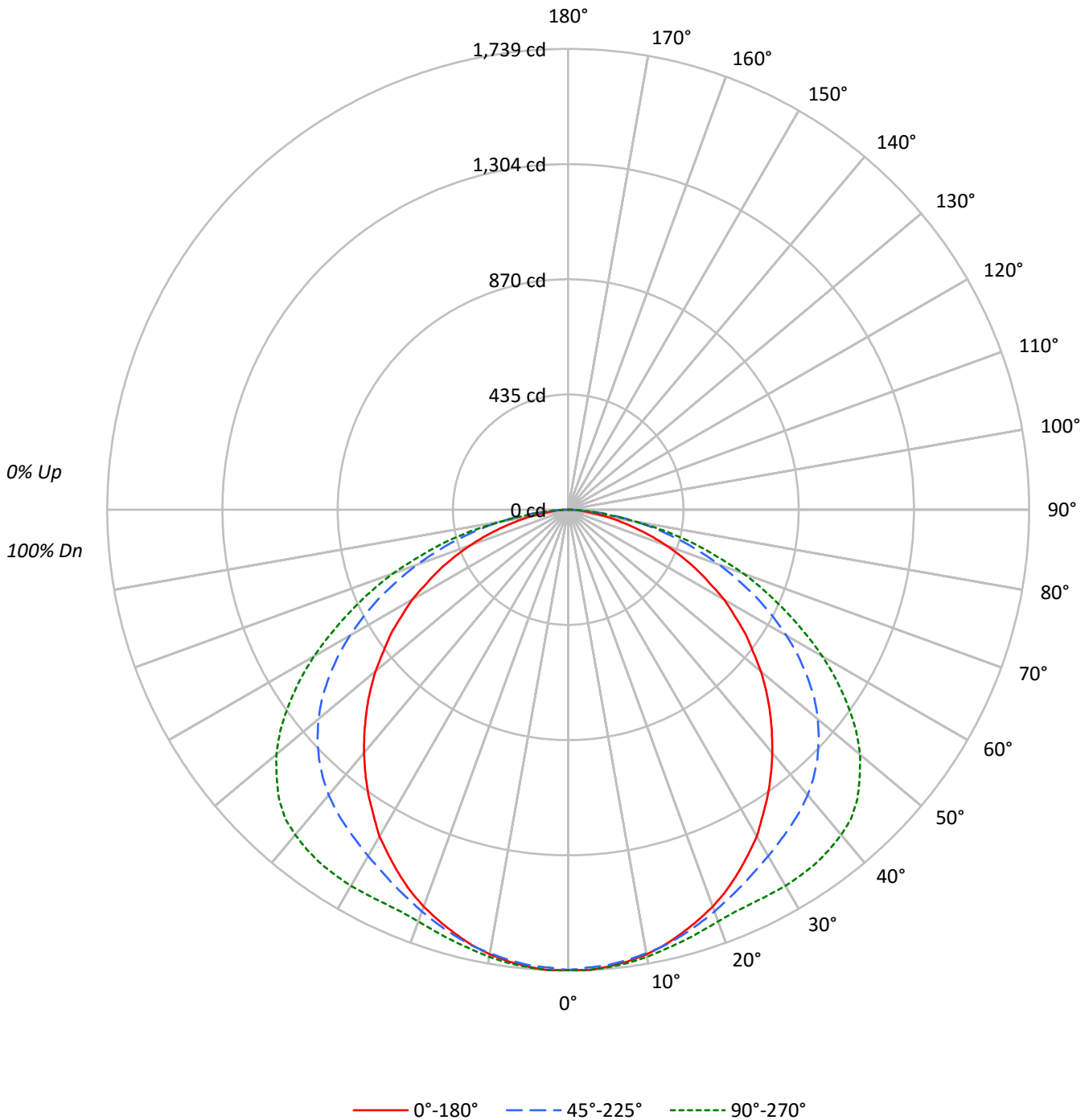
Lumens per Lamp: N/A
Luminaire Lumens: 5526.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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°	2337	2337	2337
5°	2338	2330	2341
10°	2328	2322	2341
15°	2305	2316	2346
20°	2282	2310	2367
25°	2247	2317	2433
30°	2211	2345	2546
35°	2158	2399	2676
40°	2104	2469	2813
45°	2048	2529	2936
50°	1986	2573	3008
55°	1913	2585	3022
60°	1831	2559	2981
65°	1704	2491	2877
70°	1543	2383	2761
75°	1315	2222	2538
80°	1063	2005	1960
85°	727	1422	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	3.0
10°-20°	470.8	8.5
20°-30°	725.1	13.1
30°-40°	918.0	16.6
40°-50°	1014.9	18.4
50°-60°	961.3	17.4
60°-70°	744.7	13.5
70°-80°	424.4	7.7
80°-90°	102.8	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°	1360.3	24.6
0°-40°	2278.3	41.2
0°-60°	4254.5	77.0
0°-90°	5526.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1731	1729	1725	1731	1733	164
15°	1655	1659	1663	1678	1684	467
25°	1514	1525	1561	1618	1639	697
35°	1314	1347	1461	1584	1629	821
45°	1076	1145	1329	1486	1543	830
55°	816	914	1102	1243	1288	727
65°	535	629	782	882	904	528
75°	253	333	427	474	488	273
85°	47	86	92	90	90	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.1	1737.1	1737.1	1737.1	1737.1
2.5°	1739.0	1735.1	1729.2	1737.1	1739.0
5°	1731.2	1729.2	1725.3	1731.2	1733.1
7.5°	1719.4	1717.5	1713.5	1723.3	1725.3
10°	1703.7	1703.7	1699.8	1709.6	1713.5
12.5°	1682.2	1684.1	1684.1	1693.9	1697.9
15°	1654.7	1658.6	1662.6	1678.2	1684.1
17.5°	1625.3	1631.2	1639.0	1658.6	1668.4
20°	1593.9	1597.9	1613.5	1643.0	1652.8
22.5°	1556.7	1562.6	1586.1	1627.3	1643.0
25°	1513.6	1525.3	1560.6	1617.5	1639.0
27.5°	1468.5	1482.2	1533.2	1607.7	1639.0
30°	1423.4	1439.1	1509.6	1601.8	1639.0
32.5°	1366.5	1394.0	1484.2	1595.9	1635.1
35°	1313.6	1346.9	1460.6	1584.1	1629.2
37.5°	1256.7	1297.9	1435.1	1568.5	1617.5
40°	1197.9	1248.9	1405.7	1548.8	1601.8
42.5°	1137.1	1197.9	1370.4	1523.4	1580.2
45°	1076.4	1145.0	1329.3	1486.1	1543.0
47.5°	1013.6	1090.1	1282.2	1441.0	1492.0
50°	948.9	1033.2	1229.3	1386.1	1437.1
52.5°	878.3	976.4	1170.5	1319.5	1368.5
55°	815.6	913.6	1101.8	1243.0	1288.1
57.5°	743.1	852.8	1029.3	1164.6	1201.8
60°	680.3	776.4	950.9	1074.4	1107.7
62.5°	601.9	711.7	868.5	980.3	1005.8
65°	535.2	629.3	782.3	882.3	903.8
67.5°	462.7	554.8	692.1	780.3	803.8
70°	392.1	476.4	605.8	676.4	701.9
72.5°	323.5	403.9	515.6	576.4	588.2
75°	252.9	333.3	427.4	474.5	488.2
77.5°	194.1	260.8	343.1	380.4	378.4
80°	137.2	196.1	258.8	264.7	252.9
82.5°	88.2	139.2	174.5	160.8	160.8
85°	47.1	86.3	92.1	90.2	90.2
87.5°	17.6	31.4	31.4	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)