

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: P220274

Luminaire Tested: **Z3-WG-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220274
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-3L40-LD5-UNV-24
Description: CLASS Z3 2X4 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: 4981.4 lumens
Efficiency: N/A
Efficacy: 123.3 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

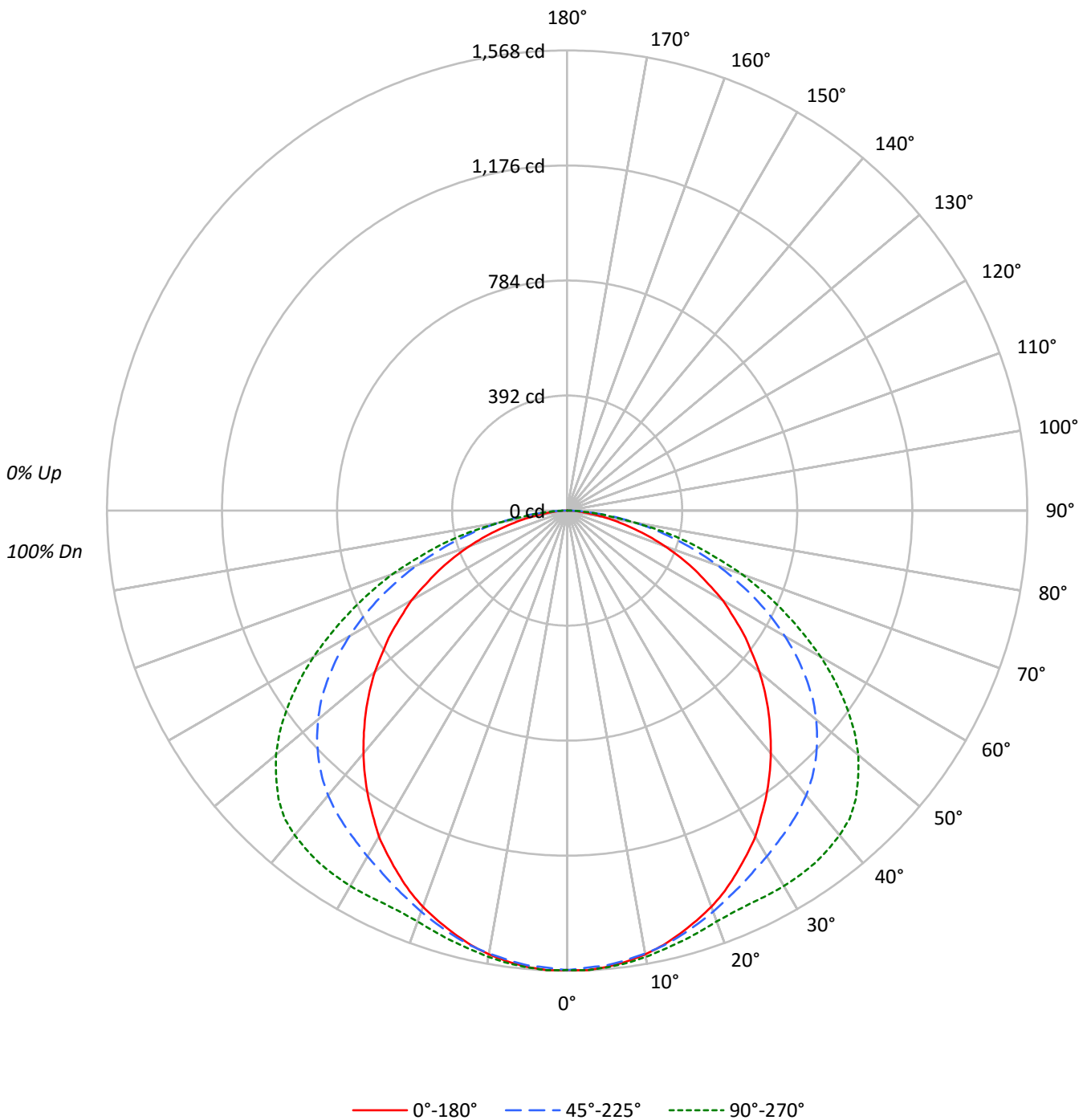
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2107	2107	2107
5°	2108	2100	2110
10°	2098	2093	2110
15°	2078	2087	2115
20°	2057	2082	2133
25°	2025	2088	2193
30°	1993	2114	2295
35°	1945	2163	2412
40°	1897	2226	2536
45°	1846	2280	2646
50°	1790	2319	2712
55°	1725	2330	2724
60°	1650	2306	2687
65°	1536	2245	2594
70°	1390	2148	2489
75°	1185	2003	2287
80°	958	1808	1767
85°	655	1283	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.0
10°-20°	424.4	8.5
20°-30°	653.6	13.1
30°-40°	827.5	16.6
40°-50°	914.8	18.4
50°-60°	866.5	17.4
60°-70°	671.2	13.5
70°-80°	382.5	7.7
80°-90°	92.7	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°	1226.1	24.6
0°-40°	2053.6	41.2
0°-60°	3834.9	77.0
0°-90°	4981.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4981.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1560	1559	1555	1560	1562	148
15°	1492	1495	1499	1513	1518	421
25°	1364	1375	1407	1458	1477	629
35°	1184	1214	1317	1428	1469	740
45°	970	1032	1198	1340	1391	748
55°	735	824	993	1120	1161	655
65°	482	567	705	795	815	476
75°	228	300	385	428	440	246
85°	42	78	83	81	81	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1567.5	1564.0	1558.7	1565.8	1567.5
5°	1560.5	1558.7	1555.2	1560.5	1562.2
7.5°	1549.9	1548.1	1544.6	1553.4	1555.2
10°	1535.7	1535.7	1532.2	1541.0	1544.6
12.5°	1516.3	1518.1	1518.1	1526.9	1530.4
15°	1491.5	1495.1	1498.6	1512.8	1518.1
17.5°	1465.0	1470.3	1477.4	1495.1	1503.9
20°	1436.8	1440.3	1454.4	1480.9	1489.8
22.5°	1403.2	1408.5	1429.7	1466.8	1480.9
25°	1364.3	1374.9	1406.7	1458.0	1477.4
27.5°	1323.7	1336.0	1382.0	1449.1	1477.4
30°	1283.0	1297.1	1360.8	1443.8	1477.4
32.5°	1231.8	1256.5	1337.8	1438.5	1473.9
35°	1184.0	1214.1	1316.6	1427.9	1468.6
37.5°	1132.8	1169.9	1293.6	1413.8	1458.0
40°	1079.8	1125.7	1267.1	1396.1	1443.8
42.5°	1025.0	1079.8	1235.3	1373.1	1424.4
45°	970.2	1032.1	1198.2	1339.6	1390.8
47.5°	913.7	982.6	1155.8	1298.9	1344.9
50°	855.3	931.3	1108.1	1249.4	1295.4
52.5°	791.7	880.1	1055.0	1189.3	1233.5
55°	735.2	823.5	993.2	1120.4	1161.1
57.5°	669.8	768.7	927.8	1049.7	1083.3
60°	613.2	699.8	857.1	968.4	998.5
62.5°	542.5	641.5	782.9	883.6	906.6
65°	482.5	567.3	705.1	795.3	814.7
67.5°	417.1	500.1	623.8	703.4	724.6
70°	353.4	429.4	546.1	609.7	632.7
72.5°	291.6	364.1	464.8	519.6	530.2
75°	228.0	300.4	385.3	427.7	440.0
77.5°	175.0	235.0	309.3	342.8	341.1
80°	123.7	176.7	233.3	238.6	228.0
82.5°	79.5	125.5	157.3	144.9	144.9
85°	42.4	77.8	83.1	81.3	81.3
87.5°	15.9	28.3	28.3	28.3	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)