

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: P220007

Luminaire Tested: **Z3-WL-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-3L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4056.7 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

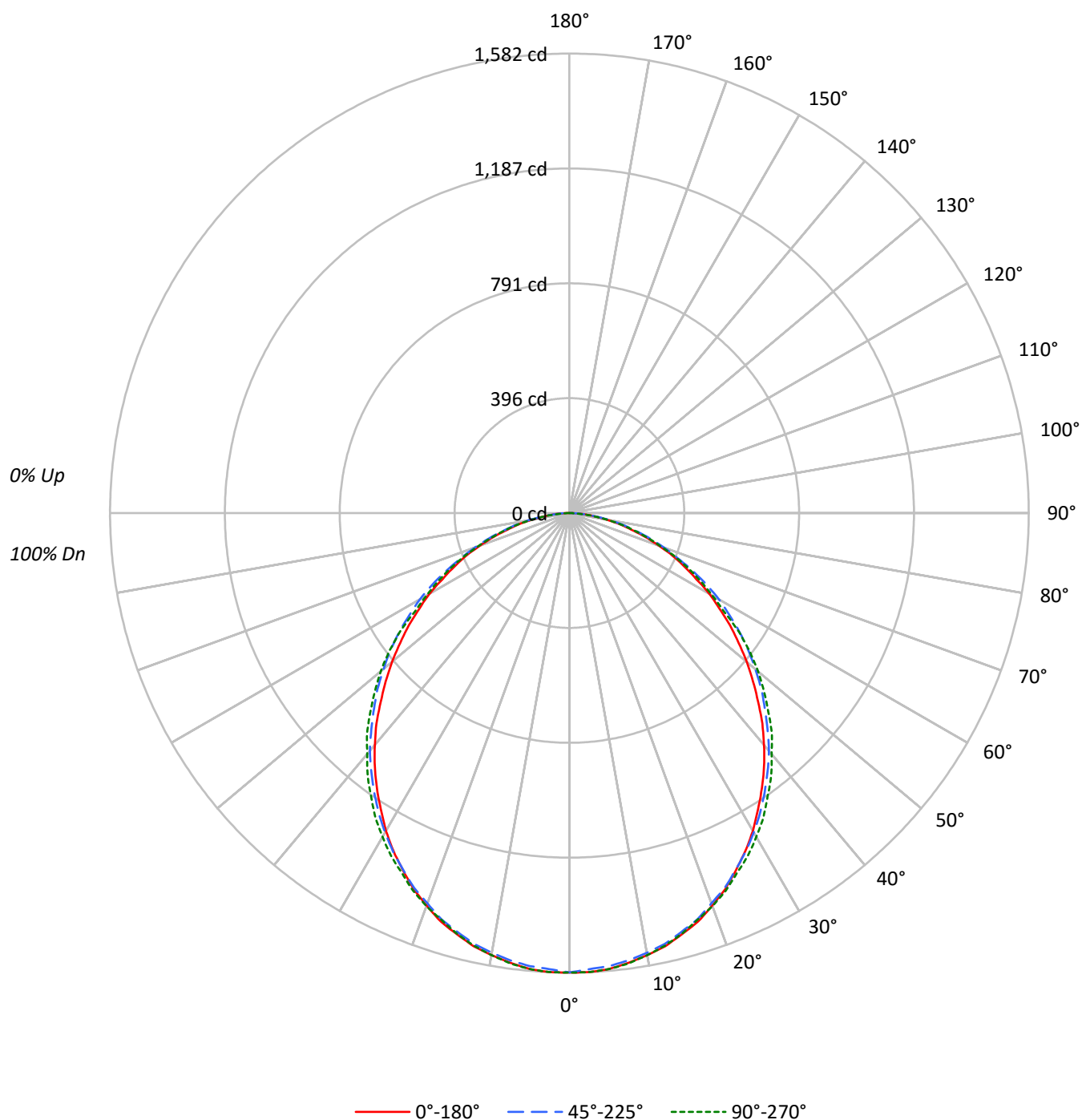
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4257	4257	4257
5°	4256	4229	4256
10°	4223	4200	4223
15°	4181	4158	4175
20°	4117	4094	4123
25°	4028	4022	4058
30°	3926	3945	4001
35°	3797	3850	3911
40°	3662	3754	3804
45°	3496	3620	3689
50°	3337	3498	3549
55°	3168	3359	3339
60°	3002	3198	3056
65°	2789	2957	2879
70°	2569	2712	2633
75°	2298	2445	2383
80°	2011	2168	2042
85°	1692	1627	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	3.7
10°-20°	422.3	10.4
20°-30°	626.7	15.4
30°-40°	734.0	18.1
40°-50°	732.4	18.1
50°-60°	629.5	15.5
60°-70°	451.8	11.1
70°-80°	248.3	6.1
80°-90°	62.5	1.5
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°	1198.2	29.5
0°-40°	1932.2	47.6
0°-60°	3294.1	81.2
0°-90°	4056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1576	1574	1566	1576	1576	149
15°	1501	1499	1492	1501	1499	423
25°	1357	1357	1355	1367	1367	625
35°	1156	1160	1172	1188	1190	723
45°	919	929	951	969	969	710
55°	675	694	716	720	712	603
65°	438	458	464	456	452	435
75°	221	237	235	235	229	237
85°	55	57	53	47	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.8	1581.8	1581.8	1581.8	1581.8
2.5°	1581.8	1579.7	1571.6	1581.8	1581.8
5°	1575.7	1573.7	1565.6	1575.7	1575.7
7.5°	1561.5	1561.5	1553.4	1561.5	1563.5
10°	1545.3	1545.3	1537.2	1547.3	1545.3
12.5°	1527.0	1523.0	1518.9	1527.0	1525.0
15°	1500.7	1498.6	1492.5	1500.7	1498.6
17.5°	1474.3	1470.2	1466.2	1472.3	1468.2
20°	1437.8	1435.8	1429.7	1439.8	1439.8
22.5°	1401.3	1399.3	1397.2	1405.3	1407.4
25°	1356.7	1356.7	1354.7	1366.8	1366.8
27.5°	1312.1	1312.1	1314.1	1328.3	1330.3
30°	1263.4	1263.4	1269.5	1285.7	1287.7
32.5°	1208.6	1212.7	1222.8	1241.1	1243.1
35°	1155.9	1160.0	1172.1	1188.4	1190.4
37.5°	1101.2	1105.2	1121.4	1137.7	1141.7
40°	1042.4	1046.4	1068.7	1082.9	1082.9
42.5°	983.5	989.6	1009.9	1028.2	1032.2
45°	918.6	928.8	951.1	969.3	969.3
47.5°	857.8	872.0	896.3	912.6	908.5
50°	797.0	811.2	835.5	849.7	847.7
52.5°	734.1	750.3	776.7	786.8	782.8
55°	675.3	693.5	715.9	719.9	711.8
57.5°	612.4	632.7	653.0	653.0	630.7
60°	557.7	573.9	594.2	571.9	567.8
62.5°	492.8	517.1	531.3	511.0	511.0
65°	438.0	458.3	464.4	456.3	452.2
67.5°	385.3	401.5	401.5	397.5	395.4
70°	326.5	344.7	344.7	338.7	334.6
72.5°	273.8	292.0	290.0	290.0	281.9
75°	221.0	237.3	235.2	235.2	229.2
77.5°	176.4	184.5	188.6	182.5	180.5
80°	129.8	137.9	139.9	133.8	131.8
82.5°	87.2	95.3	95.3	91.3	87.2
85°	54.8	56.8	52.7	46.6	48.7
87.5°	24.3	22.3	18.3	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)