

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: P219993

Luminaire Tested: **R3-WN-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-3L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3919.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

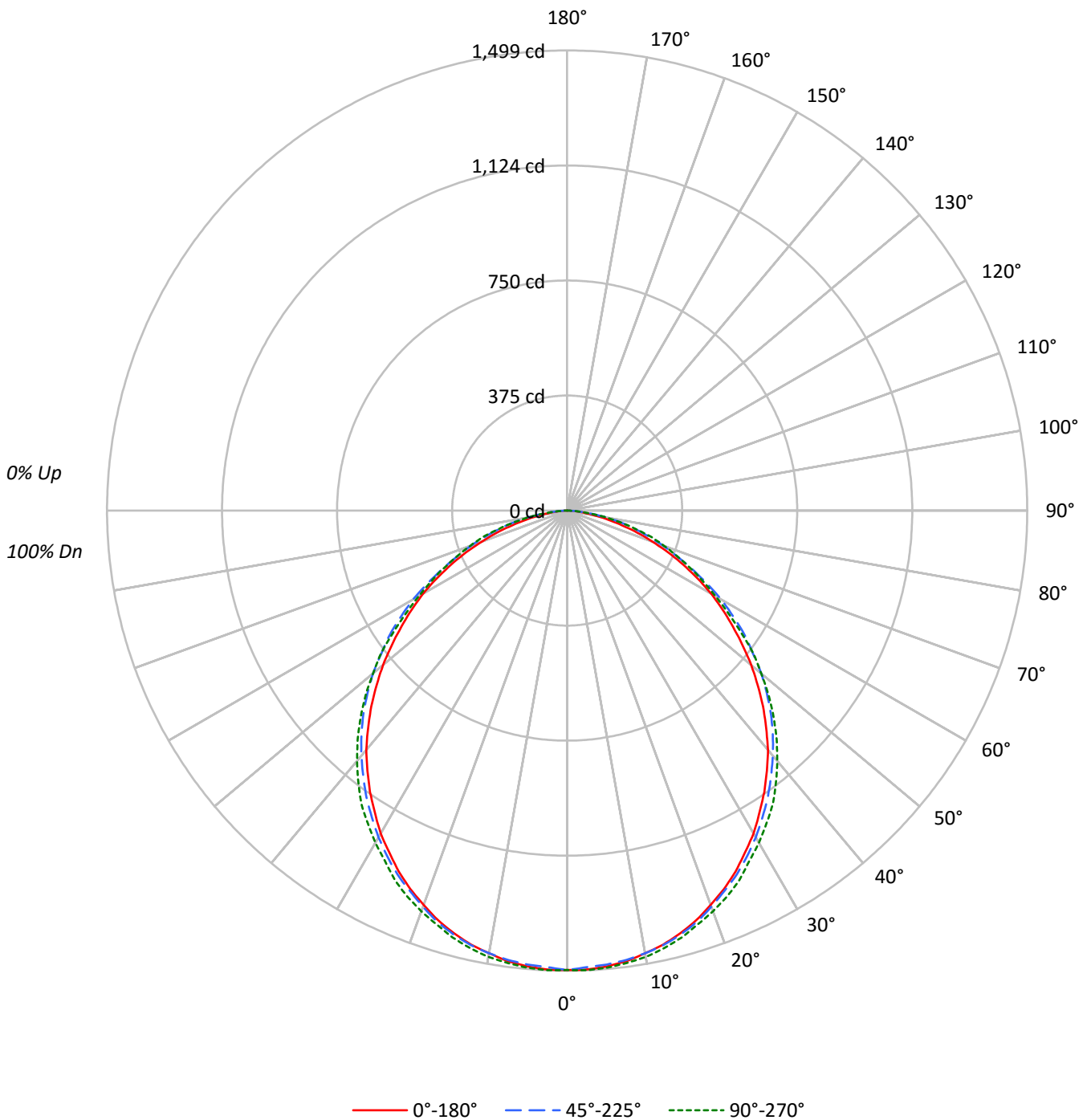
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	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	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4027	4027	4027
5°	4026	4010	4037
10°	4001	4001	4034
15°	3972	3983	4011
20°	3914	3932	3978
25°	3854	3884	3944
30°	3774	3819	3882
35°	3677	3744	3837
40°	3576	3662	3740
45°	3434	3573	3620
50°	3277	3455	3455
55°	3092	3311	3244
60°	2914	3122	3002
65°	2660	2840	2815
70°	2313	2601	2648
75°	1918	2361	2383
80°	1415	1980	1980
85°	939	1439	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.6
10°-20°	403.7	10.3
20°-30°	603.8	15.4
30°-40°	713.6	18.2
40°-50°	718.7	18.3
50°-60°	616.1	15.7
60°-70°	436.8	11.1
70°-80°	233.0	5.9
80°-90°	52.1	1.3
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°	1149.0	29.3
0°-40°	1862.7	47.5
0°-60°	3197.4	81.6
0°-90°	3919.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1490	1490	1484	1493	1495	141
15°	1426	1428	1430	1438	1440	402
25°	1298	1304	1308	1324	1328	597
35°	1119	1121	1140	1160	1168	700
45°	902	913	939	953	951	695
55°	659	677	706	702	692	590
65°	418	438	446	444	442	413
75°	184	209	227	235	229	199
85°	30	41	47	45	41	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.6	1496.6	1496.6	1496.6	1496.6
2.5°	1496.6	1494.6	1488.5	1498.6	1498.6
5°	1490.5	1490.5	1484.4	1492.6	1494.6
7.5°	1480.4	1480.4	1476.3	1486.5	1486.5
10°	1464.2	1466.2	1464.2	1474.3	1476.3
12.5°	1447.9	1450.0	1450.0	1458.1	1460.1
15°	1425.6	1427.7	1429.7	1437.8	1439.8
17.5°	1399.3	1403.3	1405.3	1413.5	1413.5
20°	1366.8	1372.9	1372.9	1387.1	1389.1
22.5°	1334.4	1338.4	1340.5	1356.7	1360.7
25°	1297.9	1304.0	1308.0	1324.2	1328.3
27.5°	1255.3	1261.4	1269.5	1287.7	1285.7
30°	1214.7	1216.8	1228.9	1247.2	1249.2
32.5°	1166.1	1172.1	1184.3	1204.6	1208.6
35°	1119.4	1121.4	1139.7	1160.0	1168.1
37.5°	1068.7	1074.8	1091.0	1113.3	1117.4
40°	1018.0	1022.1	1042.4	1066.7	1064.7
42.5°	959.2	967.3	991.7	1009.9	1009.9
45°	902.4	912.6	938.9	953.1	951.1
47.5°	841.6	855.8	882.1	894.3	890.3
50°	782.8	797.0	825.4	831.4	825.4
52.5°	719.9	738.2	762.5	764.5	764.5
55°	659.1	677.3	705.7	701.7	691.5
57.5°	600.3	618.5	640.8	632.7	622.6
60°	541.5	557.7	580.0	563.8	557.7
62.5°	478.6	500.9	511.0	502.9	498.9
65°	417.8	438.0	446.1	444.1	442.1
67.5°	356.9	381.2	385.3	387.3	387.3
70°	294.0	322.4	330.6	336.6	336.6
72.5°	241.3	265.7	275.8	285.9	288.0
75°	184.5	208.9	227.1	235.2	229.2
77.5°	137.9	156.1	180.5	178.5	178.5
80°	91.3	111.5	127.8	131.8	127.8
82.5°	56.8	75.0	83.1	83.1	81.1
85°	30.4	40.6	46.6	44.6	40.6
87.5°	12.2	14.2	14.2	10.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)