

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: P219994

Luminaire Tested: **R3-WN-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219994
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-4L35-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: 4887.6 lumens
Efficiency: N/A
Efficacy: 112.9 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

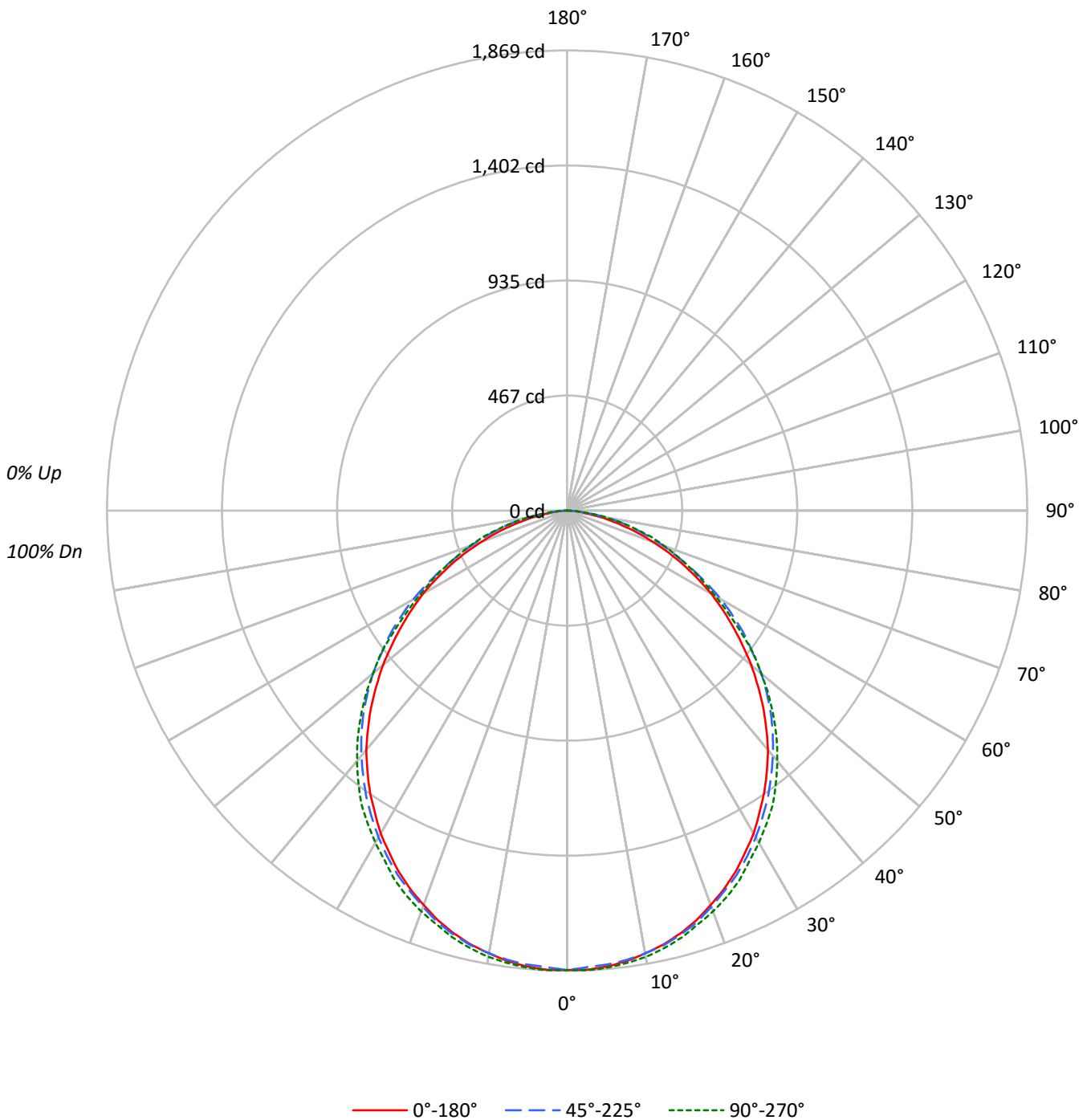
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5022	5022	5022
5°	5021	5000	5035
10°	4989	4989	5031
15°	4953	4967	5002
20°	4881	4903	4961
25°	4806	4843	4918
30°	4707	4762	4841
35°	4586	4669	4785
40°	4460	4566	4664
45°	4283	4456	4513
50°	4086	4309	4309
55°	3856	4129	4046
60°	3634	3893	3743
65°	3317	3543	3510
70°	2885	3243	3303
75°	2392	2944	2972
80°	1764	2469	2469
85°	1170	1797	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.6
10°-20°	503.4	10.3
20°-30°	752.9	15.4
30°-40°	889.9	18.2
40°-50°	896.3	18.3
50°-60°	768.2	15.7
60°-70°	544.8	11.1
70°-80°	290.6	5.9
80°-90°	65.0	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°	1432.9	29.3
0°-40°	2322.8	47.5
0°-60°	3987.3	81.6
0°-90°	4887.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4887.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1859	1859	1851	1861	1864	176
15°	1778	1780	1783	1793	1796	501
25°	1618	1626	1631	1651	1656	745
35°	1396	1398	1421	1446	1457	873
45°	1125	1138	1171	1189	1186	867
55°	822	845	880	875	862	736
65°	521	546	556	554	551	515
75°	230	260	283	293	286	248
85°	38	51	58	56	51	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.3	1866.3	1866.3	1866.3	1866.3
2.5°	1866.3	1863.8	1856.2	1868.8	1868.8
5°	1858.7	1858.7	1851.1	1861.3	1863.8
7.5°	1846.1	1846.1	1841.0	1853.7	1853.7
10°	1825.9	1828.4	1825.9	1838.5	1841.0
12.5°	1805.6	1808.2	1808.2	1818.3	1820.8
15°	1777.8	1780.3	1782.9	1793.0	1795.5
17.5°	1744.9	1750.0	1752.5	1762.6	1762.6
20°	1704.5	1712.1	1712.1	1729.8	1732.3
22.5°	1664.0	1669.1	1671.6	1691.8	1696.9
25°	1618.5	1626.1	1631.1	1651.4	1656.4
27.5°	1565.4	1573.0	1583.1	1605.8	1603.3
30°	1514.8	1517.3	1532.5	1555.3	1557.8
32.5°	1454.1	1461.7	1476.9	1502.2	1507.2
35°	1395.9	1398.5	1421.2	1446.5	1456.6
37.5°	1332.7	1340.3	1360.5	1388.4	1393.4
40°	1269.5	1274.6	1299.8	1330.2	1327.7
42.5°	1196.2	1206.3	1236.6	1259.4	1259.4
45°	1125.4	1138.0	1170.9	1188.6	1186.0
47.5°	1049.5	1067.2	1100.1	1115.2	1110.2
50°	976.1	993.9	1029.3	1036.8	1029.3
52.5°	897.8	920.5	950.9	953.4	953.4
55°	821.9	844.6	880.1	875.0	862.3
57.5°	748.5	771.3	799.1	789.0	776.4
60°	675.2	695.4	723.3	703.0	695.4
62.5°	596.8	624.6	637.3	627.2	622.1
65°	521.0	546.2	556.4	553.8	551.3
67.5°	445.1	475.4	480.5	483.0	483.0
70°	366.7	402.1	412.2	419.8	419.8
72.5°	300.9	331.3	343.9	356.6	359.1
75°	230.1	260.5	283.2	293.4	285.8
77.5°	172.0	194.7	225.1	222.5	222.5
80°	113.8	139.1	159.3	164.4	159.3
82.5°	70.8	93.6	103.7	103.7	101.2
85°	37.9	50.6	58.2	55.6	50.6
87.5°	15.2	17.7	17.7	12.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)