

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: P219989

Luminaire Tested: **R3-WN-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219989
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-4L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4832.7 lumens
Efficiency: N/A
Efficacy: 111.6 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

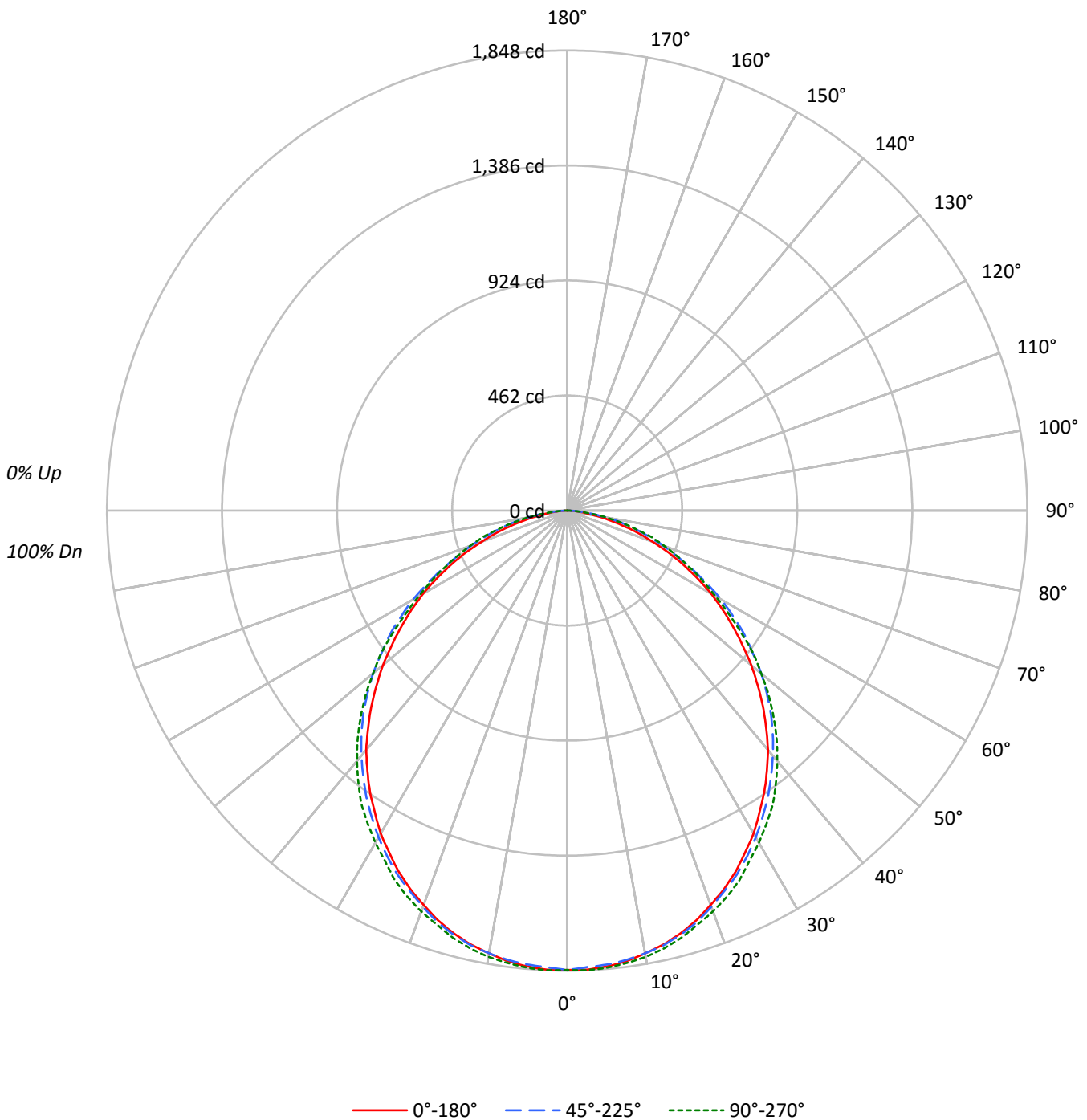
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4966	4966	4966
5°	4965	4944	4978
10°	4933	4933	4974
15°	4897	4911	4946
20°	4826	4848	4905
25°	4752	4789	4863
30°	4654	4708	4786
35°	4534	4617	4731
40°	4410	4515	4612
45°	4235	4406	4463
50°	4041	4261	4261
55°	3813	4083	4001
60°	3593	3849	3701
65°	3280	3503	3471
70°	2853	3207	3266
75°	2365	2912	2938
80°	1743	2441	2441
85°	1158	1775	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.6
10°-20°	497.8	10.3
20°-30°	744.5	15.4
30°-40°	879.9	18.2
40°-50°	886.2	18.3
50°-60°	759.6	15.7
60°-70°	538.6	11.1
70°-80°	287.3	5.9
80°-90°	64.2	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°	1416.8	29.3
0°-40°	2296.7	47.5
0°-60°	3942.6	81.6
0°-90°	4832.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4832.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1838	1838	1830	1840	1843	174
15°	1758	1760	1763	1773	1775	495
25°	1600	1608	1613	1633	1638	736
35°	1380	1383	1405	1430	1440	863
45°	1113	1125	1158	1175	1173	857
55°	813	835	870	865	853	728
65°	515	540	550	548	545	509
75°	228	258	280	290	283	246
85°	38	50	58	55	50	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1845.4	1842.9	1835.4	1847.9	1847.9
5°	1837.9	1837.9	1830.4	1840.4	1842.9
7.5°	1825.4	1825.4	1820.4	1832.9	1832.9
10°	1805.4	1807.9	1805.4	1817.9	1820.4
12.5°	1785.4	1787.9	1787.9	1797.9	1800.4
15°	1757.9	1760.4	1762.9	1772.9	1775.4
17.5°	1725.4	1730.4	1732.9	1742.9	1742.9
20°	1685.3	1692.8	1692.8	1710.4	1712.9
22.5°	1645.3	1650.3	1652.8	1672.8	1677.8
25°	1600.3	1607.8	1612.8	1632.8	1637.8
27.5°	1547.8	1555.3	1565.3	1587.8	1585.3
30°	1497.8	1500.3	1515.3	1537.8	1540.3
32.5°	1437.8	1445.3	1460.3	1485.3	1490.3
35°	1380.3	1382.8	1405.3	1430.3	1440.3
37.5°	1317.8	1325.3	1345.3	1372.8	1377.8
40°	1255.3	1260.3	1285.3	1315.3	1312.8
42.5°	1182.7	1192.7	1222.8	1245.3	1245.3
45°	1112.7	1125.2	1157.7	1175.2	1172.7
47.5°	1037.7	1055.2	1087.7	1102.7	1097.7
50°	965.2	982.7	1017.7	1025.2	1017.7
52.5°	887.7	910.2	940.2	942.7	942.7
55°	812.7	835.2	870.2	865.2	852.7
57.5°	740.2	762.7	790.2	780.2	767.7
60°	667.6	687.6	715.1	695.1	687.6
62.5°	590.1	617.6	630.1	620.1	615.1
65°	515.1	540.1	550.1	547.6	545.1
67.5°	440.1	470.1	475.1	477.6	477.6
70°	362.6	397.6	407.6	415.1	415.1
72.5°	297.6	327.6	340.1	352.6	355.1
75°	227.5	257.6	280.1	290.1	282.6
77.5°	170.0	192.5	222.5	220.0	220.0
80°	112.5	137.5	157.5	162.5	157.5
82.5°	70.0	92.5	102.5	102.5	100.0
85°	37.5	50.0	57.5	55.0	50.0
87.5°	15.0	17.5	17.5	12.5	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)