

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: P219990

Luminaire Tested: **R3-WN-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219990
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-5L30-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: 5741.1 lumens
Efficiency: N/A
Efficacy: 106.3 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

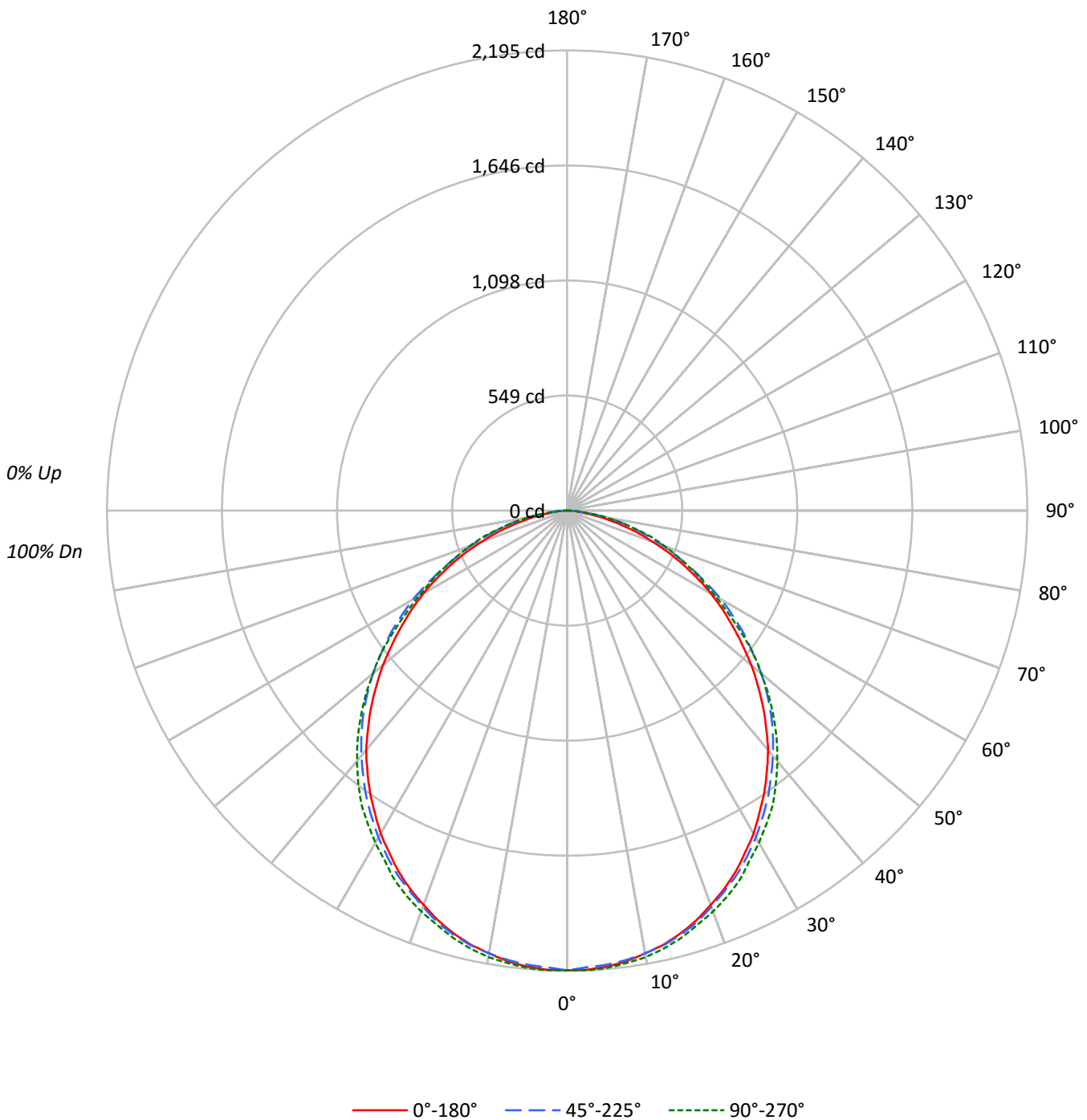
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	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	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5899	5899	5899
5°	5898	5874	5914
10°	5860	5860	5909
15°	5818	5834	5875
20°	5733	5759	5827
25°	5645	5689	5777
30°	5529	5593	5686
35°	5387	5484	5621
40°	5238	5363	5478
45°	5031	5234	5302
50°	4800	5061	5061
55°	4529	4850	4752
60°	4268	4573	4397
65°	3896	4161	4124
70°	3389	3810	3880
75°	2810	3459	3490
80°	2072	2899	2899
85°	1377	2109	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	3.6
10°-20°	591.3	10.3
20°-30°	884.4	15.4
30°-40°	1045.3	18.2
40°-50°	1052.7	18.3
50°-60°	902.4	15.7
60°-70°	639.9	11.1
70°-80°	341.3	5.9
80°-90°	76.3	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°	1683.1	29.3
0°-40°	2728.4	47.5
0°-60°	4683.5	81.6
0°-90°	5741.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5741.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2183	2183	2174	2186	2189	207
15°	2088	2091	2094	2106	2109	588
25°	1901	1910	1916	1940	1946	875
35°	1640	1643	1669	1699	1711	1025
45°	1322	1337	1375	1396	1393	1018
55°	965	992	1034	1028	1013	865
65°	612	642	654	650	648	605
75°	270	306	333	345	336	292
85°	45	59	68	65	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2192.2	2192.2	2192.2	2192.2	2192.2
2.5°	2192.2	2189.3	2180.3	2195.2	2195.2
5°	2183.3	2183.3	2174.4	2186.3	2189.3
7.5°	2168.5	2168.5	2162.5	2177.4	2177.4
10°	2144.7	2147.7	2144.7	2159.5	2162.5
12.5°	2120.9	2123.9	2123.9	2135.8	2138.8
15°	2088.3	2091.2	2094.2	2106.1	2109.0
17.5°	2049.6	2055.6	2058.5	2070.4	2070.4
20°	2002.1	2011.0	2011.0	2031.8	2034.8
22.5°	1954.6	1960.5	1963.5	1987.3	1993.2
25°	1901.1	1910.0	1916.0	1939.7	1945.7
27.5°	1838.7	1847.6	1859.5	1886.3	1883.3
30°	1779.3	1782.3	1800.1	1826.9	1829.8
32.5°	1708.0	1716.9	1734.8	1764.5	1770.4
35°	1639.7	1642.7	1669.4	1699.1	1711.0
37.5°	1565.4	1574.4	1598.1	1630.8	1636.7
40°	1491.2	1497.1	1526.8	1562.5	1559.5
42.5°	1405.0	1416.9	1452.6	1479.3	1479.3
45°	1321.9	1336.7	1375.3	1396.1	1393.2
47.5°	1232.8	1253.5	1292.2	1310.0	1304.0
50°	1146.6	1167.4	1209.0	1217.9	1209.0
52.5°	1054.5	1081.3	1116.9	1119.9	1119.9
55°	965.4	992.1	1033.7	1027.8	1012.9
57.5°	879.3	906.0	938.7	926.8	911.9
60°	793.1	816.9	849.6	825.8	816.9
62.5°	701.0	733.7	748.6	736.7	730.7
65°	611.9	641.6	653.5	650.5	647.6
67.5°	522.8	558.5	564.4	567.4	567.4
70°	430.7	472.3	484.2	493.1	493.1
72.5°	353.5	389.1	404.0	418.8	421.8
75°	270.3	306.0	332.7	344.6	335.7
77.5°	202.0	228.7	264.4	261.4	261.4
80°	133.7	163.4	187.1	193.1	187.1
82.5°	83.2	109.9	121.8	121.8	118.8
85°	44.6	59.4	68.3	65.4	59.4
87.5°	17.8	20.8	20.8	14.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)