

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: P35872

Luminaire Tested: **R3-WN-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35872
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-1L30-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: 1932.7 lumens
Efficiency: N/A
Efficacy: 121.6 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

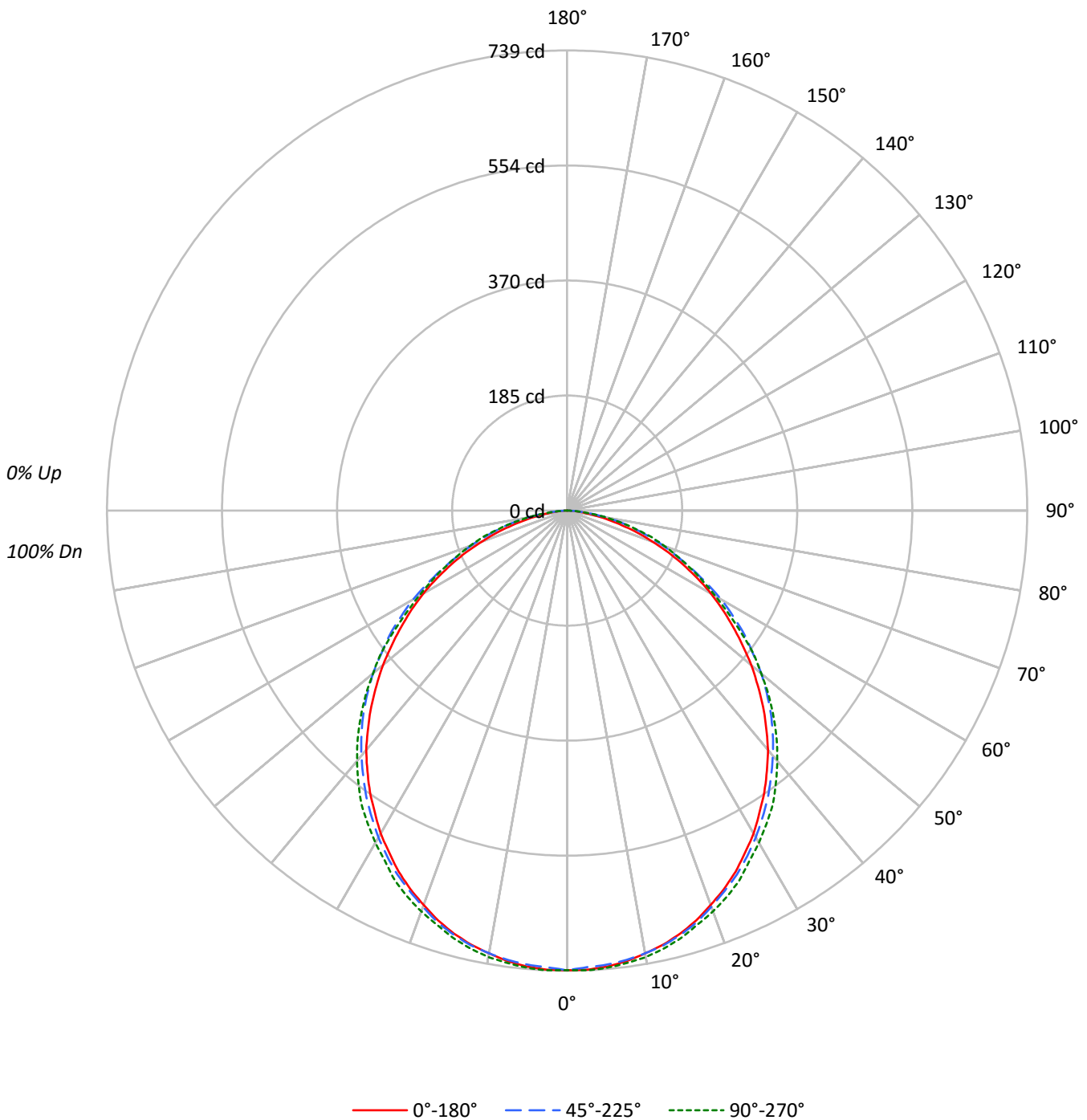
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1986	1986	1986
5°	1985	1977	1991
10°	1973	1973	1989
15°	1958	1964	1978
20°	1930	1939	1962
25°	1900	1915	1945
30°	1861	1883	1914
35°	1813	1846	1892
40°	1763	1806	1844
45°	1694	1762	1785
50°	1616	1704	1704
55°	1525	1633	1600
60°	1437	1539	1480
65°	1312	1401	1388
70°	1141	1282	1306
75°	946	1164	1175
80°	697	976	976
85°	463	710	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.6
10°-20°	199.1	10.3
20°-30°	297.7	15.4
30°-40°	351.9	18.2
40°-50°	354.4	18.3
50°-60°	303.8	15.7
60°-70°	215.4	11.1
70°-80°	114.9	5.9
80°-90°	25.7	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°	566.6	29.3
0°-40°	918.5	47.5
0°-60°	1576.7	81.6
0°-90°	1932.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	735	735	732	736	737	70
15°	703	704	705	709	710	198
25°	640	643	645	653	655	294
35°	552	553	562	572	576	345
45°	445	450	463	470	469	343
55°	325	334	348	346	341	291
65°	206	216	220	219	218	204
75°	91	103	112	116	113	98
85°	15	20	23	22	20	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738	738	738	738	738
2.5°	738	737	734	739	739
5°	735	735	732	736	737
7.5°	730	730	728	733	733
10°	722	723	722	727	728
12.5°	714	715	715	719	720
15°	703	704	705	709	710
17.5°	690	692	693	697	697
20°	674	677	677	684	685
22.5°	658	660	661	669	671
25°	640	643	645	653	655
27.5°	619	622	626	635	634
30°	599	600	606	615	616
32.5°	575	578	584	594	596
35°	552	553	562	572	576
37.5°	527	530	538	549	551
40°	502	504	514	526	525
42.5°	473	477	489	498	498
45°	445	450	463	470	469
47.5°	415	422	435	441	439
50°	386	393	407	410	407
52.5°	355	364	376	377	377
55°	325	334	348	346	341
57.5°	296	305	316	312	307
60°	267	275	286	278	275
62.5°	236	247	252	248	246
65°	206	216	220	219	218
67.5°	176	188	190	191	191
70°	145	159	163	166	166
72.5°	119	131	136	141	142
75°	91	103	112	116	113
77.5°	68	77	89	88	88
80°	45	55	63	65	63
82.5°	28	37	41	41	40
85°	15	20	23	22	20
87.5°	6	7	7	5	4
90°	0	0	0	0	0

(END OF REPORT)