

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: P220103

Luminaire Tested: **R3-WD-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-2L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2448.1 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

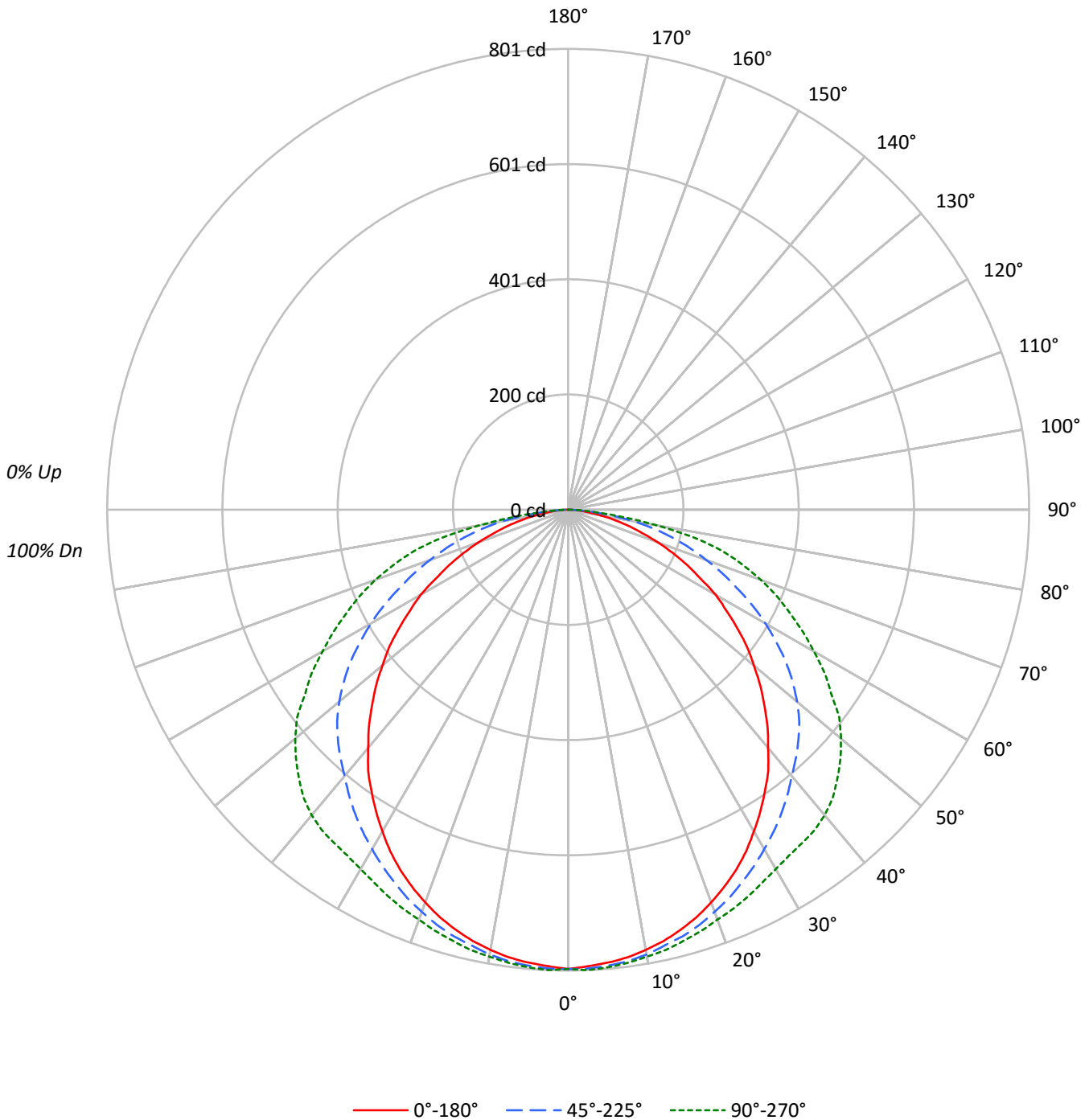
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2148	2148	2148
5°	2135	2149	2156
10°	2123	2145	2156
15°	2106	2139	2161
20°	2080	2130	2172
25°	2051	2122	2200
30°	2006	2117	2241
35°	1959	2121	2326
40°	1899	2123	2435
45°	1835	2153	2517
50°	1762	2174	2591
55°	1682	2168	2617
60°	1594	2130	2652
65°	1455	2064	2706
70°	1306	2006	2801
75°	1119	1947	2886
80°	905	1812	2408
85°	658	1149	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.1
10°-20°	216.5	8.8
20°-30°	329.9	13.5
30°-40°	406.3	16.6
40°-50°	439.1	17.9
50°-60°	410.9	16.8
60°-70°	323.1	13.2
70°-80°	199.2	8.1
80°-90°	47.6	1.9
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°	621.9	25.4
0°-40°	1028.3	42.0
0°-60°	1878.3	76.7
0°-90°	2448.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	790	793	796	797	798	75
15°	756	760	768	774	776	213
25°	691	697	715	734	741	318
35°	596	608	646	688	708	373
45°	482	505	566	636	662	372
55°	359	390	462	533	558	321
65°	228	259	324	393	425	226
75°	108	136	187	248	278	115
85°	21	29	37	46	45	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.3	798.3	798.3	798.3	798.3
2.5°	794.3	795.6	798.3	799.6	800.9
5°	790.3	792.9	795.6	796.9	798.3
7.5°	785.0	787.6	791.6	794.3	794.3
10°	777.0	779.7	785.0	789.0	789.0
12.5°	767.7	770.4	775.7	782.3	783.6
15°	755.8	759.7	767.7	774.3	775.7
17.5°	742.5	746.5	757.1	765.1	767.7
20°	726.5	731.8	743.8	755.8	758.4
22.5°	709.3	715.9	730.5	745.1	750.4
25°	690.7	697.3	714.6	734.5	741.1
27.5°	669.4	676.1	698.6	722.5	730.5
30°	645.5	656.1	681.4	709.3	721.2
32.5°	621.6	632.2	664.1	698.6	713.3
35°	596.4	608.3	645.5	688.0	707.9
37.5°	571.1	584.4	625.6	678.7	702.6
40°	540.6	557.8	604.3	669.4	693.3
42.5°	512.7	531.3	585.7	654.8	680.0
45°	482.1	504.7	565.8	636.2	661.5
47.5°	452.9	475.5	544.6	615.0	641.5
50°	421.0	447.6	519.3	591.1	618.9
52.5°	391.8	418.4	491.4	563.2	593.7
55°	358.6	390.5	462.2	532.6	557.8
57.5°	325.4	354.6	429.0	499.4	528.6
60°	296.2	322.8	395.8	464.9	492.8
62.5°	259.0	290.9	361.3	429.0	459.6
65°	228.5	259.0	324.1	393.2	425.0
67.5°	196.6	228.5	290.9	358.6	391.8
70°	166.0	195.2	255.0	322.8	356.0
72.5°	134.1	163.4	221.8	286.9	317.4
75°	107.6	135.5	187.3	248.4	277.6
77.5°	82.3	106.3	152.7	205.9	224.5
80°	58.4	78.4	116.9	146.1	155.4
82.5°	37.2	53.1	73.1	90.3	90.3
85°	21.3	29.2	37.2	46.5	45.2
87.5°	9.3	10.6	12.0	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)