

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: P220094

Luminaire Tested: **R3-WD-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220094
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-5L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.2 lumens
Efficiency: N/A
Efficacy: 100.1 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

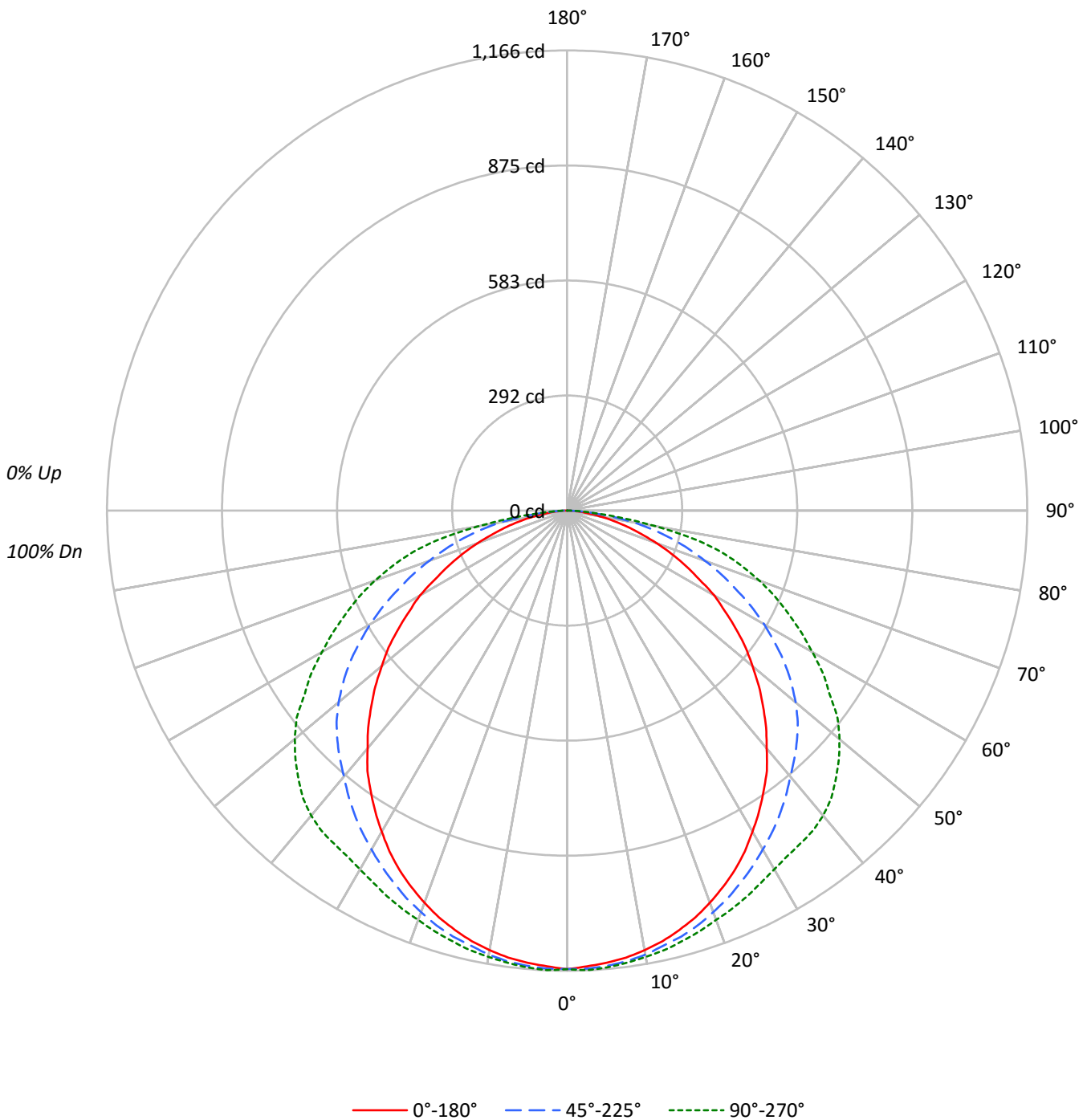
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3126	3126	3126
5°	3107	3128	3138
10°	3090	3122	3138
15°	3064	3113	3145
20°	3028	3100	3161
25°	2985	3088	3203
30°	2919	3081	3262
35°	2851	3086	3385
40°	2764	3090	3545
45°	2670	3134	3664
50°	2565	3165	3772
55°	2449	3156	3809
60°	2320	3101	3860
65°	2117	3004	3939
70°	1901	2921	4076
75°	1628	2834	4200
80°	1319	2636	3505
85°	954	1670	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.1
10°-20°	315.0	8.8
20°-30°	480.2	13.5
30°-40°	591.4	16.6
40°-50°	639.1	17.9
50°-60°	598.1	16.8
60°-70°	470.2	13.2
70°-80°	289.9	8.1
80°-90°	69.2	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°	905.2	25.4
0°-40°	1496.6	42.0
0°-60°	2733.8	76.7
0°-90°	3563.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1150	1154	1158	1160	1162	109
15°	1100	1106	1117	1127	1129	310
25°	1005	1015	1040	1069	1079	462
35°	868	885	940	1001	1030	543
45°	702	735	824	926	963	542
55°	522	568	673	775	812	467
65°	332	377	472	572	619	329
75°	157	197	273	362	404	167
85°	31	42	54	68	66	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.8	1161.8	1161.8	1161.8	<i>1161.8</i>
2.5°	<i>1156.0</i>	<i>1158.0</i>	<i>1161.8</i>	<i>1163.8</i>	<i>1165.7</i>
5°	1150.2	1154.1	1158.0	1159.9	<i>1161.8</i>
7.5°	1142.5	1146.4	1152.2	1156.0	<i>1156.0</i>
10°	1130.9	1134.8	1142.5	1148.3	<i>1148.3</i>
12.5°	1117.4	1121.2	1129.0	1138.6	<i>1140.6</i>
15°	1100.0	1105.8	1117.4	1127.0	<i>1129.0</i>
17.5°	1080.6	1086.4	1101.9	1113.5	<i>1117.4</i>
20°	1057.4	1065.2	1082.6	1100.0	<i>1103.8</i>
22.5°	1032.3	1042.0	1063.2	1084.5	<i>1092.2</i>
25°	1005.3	1014.9	1040.1	1069.0	<i>1078.7</i>
27.5°	974.3	984.0	1016.9	1051.7	<i>1063.2</i>
30°	939.5	955.0	991.7	1032.3	<i>1049.7</i>
32.5°	904.7	920.2	966.6	1016.9	<i>1038.1</i>
35°	868.0	885.4	939.5	1001.4	<i>1030.4</i>
37.5°	831.3	850.6	910.5	987.9	<i>1022.7</i>
40°	786.8	811.9	879.6	974.3	<i>1009.1</i>
42.5°	746.2	773.3	852.5	953.1	<i>989.8</i>
45°	701.7	734.6	823.5	926.0	<i>962.7</i>
47.5°	659.2	692.1	792.6	895.1	<i>933.7</i>
50°	612.8	651.5	755.9	860.3	<i>900.9</i>
52.5°	570.3	609.0	715.3	819.7	<i>864.1</i>
55°	522.0	568.4	672.7	775.2	<i>811.9</i>
57.5°	473.6	516.2	624.4	726.9	<i>769.4</i>
60°	431.1	469.8	576.1	676.6	<i>717.2</i>
62.5°	377.0	423.4	525.8	624.4	<i>668.9</i>
65°	332.5	377.0	471.7	572.2	<i>618.6</i>
67.5°	286.1	332.5	423.4	522.0	<i>570.3</i>
70°	241.6	284.2	371.2	469.8	<i>518.1</i>
72.5°	195.3	237.8	322.8	417.6	<i>462.0</i>
75°	156.6	197.2	272.6	361.5	<i>404.0</i>
77.5°	119.9	154.7	222.3	299.6	<i>326.7</i>
80°	85.1	114.1	170.1	212.6	<i>226.2</i>
82.5°	54.1	77.3	106.3	131.5	<i>131.5</i>
85°	30.9	42.5	54.1	67.7	<i>65.7</i>
87.5°	13.5	15.5	17.4	21.3	<i>21.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)