

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: P220100

Luminaire Tested: **R3-WD-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220100
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-5L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3691.1 lumens
Efficiency: N/A
Efficacy: 103.7 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

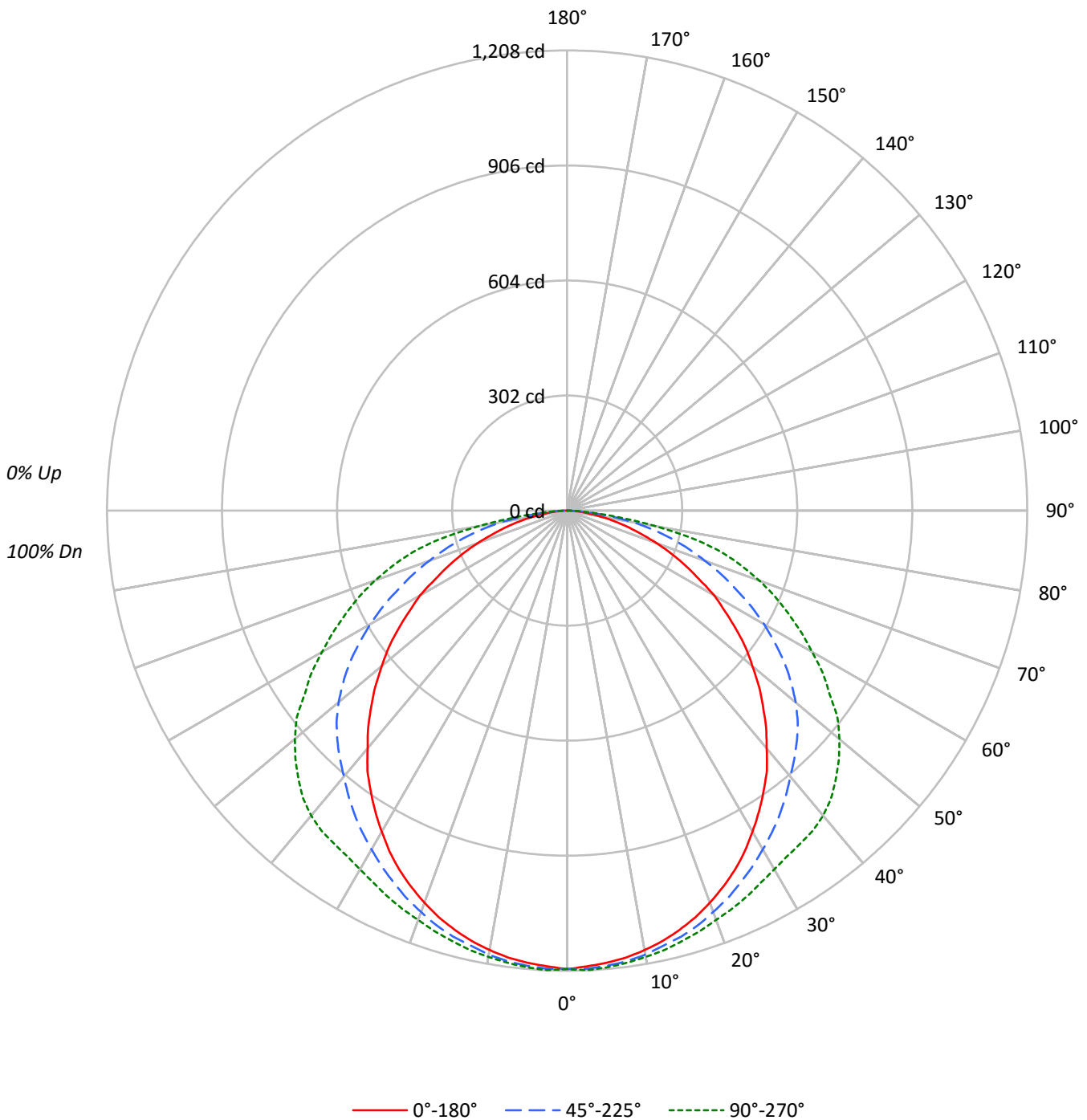
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3239	3239	3239
5°	3219	3240	3251
10°	3201	3234	3250
15°	3175	3225	3258
20°	3137	3211	3275
25°	3092	3199	3318
30°	3024	3192	3379
35°	2954	3197	3506
40°	2863	3201	3672
45°	2766	3247	3795
50°	2658	3278	3907
55°	2537	3270	3946
60°	2404	3212	3999
65°	2193	3111	4080
70°	1969	3025	4223
75°	1686	2936	4351
80°	1365	2731	3631
85°	988	1732	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.1
10°-20°	326.4	8.8
20°-30°	497.4	13.5
30°-40°	612.7	16.6
40°-50°	662.1	17.9
50°-60°	619.5	16.8
60°-70°	487.1	13.2
70°-80°	300.3	8.1
80°-90°	71.7	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°	937.7	25.4
0°-40°	1550.4	42.0
0°-60°	2831.9	76.7
0°-90°	3691.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3691.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1192	1196	1200	1202	1204	113
15°	1140	1146	1158	1168	1170	321
25°	1041	1051	1077	1107	1117	479
35°	899	917	973	1037	1067	562
45°	727	761	853	959	997	561
55°	541	589	697	803	841	483
65°	344	390	489	593	641	341
75°	162	204	282	374	418	173
85°	32	44	56	70	68	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.6	1203.6	1203.6	1203.6	1203.6
2.5°	1197.5	1199.5	1203.6	1205.6	1207.6
5°	1191.5	1195.5	1199.5	1201.6	1203.6
7.5°	1183.5	1187.5	1193.5	1197.5	1197.5
10°	1171.5	1175.5	1183.5	1189.5	1189.5
12.5°	1157.5	1161.5	1169.5	1179.5	1181.5
15°	1139.5	1145.5	1157.5	1167.5	1169.5
17.5°	1119.4	1125.5	1141.5	1153.5	1157.5
20°	1095.4	1103.4	1121.4	1139.5	1143.5
22.5°	1069.4	1079.4	1101.4	1123.4	1131.5
25°	1041.3	1051.4	1077.4	1107.4	1117.4
27.5°	1009.3	1019.3	1053.4	1089.4	1101.4
30°	973.3	989.3	1027.3	1069.4	1087.4
32.5°	937.2	953.2	1001.3	1053.4	1075.4
35°	899.2	917.2	973.3	1037.3	1067.4
37.5°	861.1	881.1	943.2	1023.3	1059.4
40°	815.1	841.1	911.2	1009.3	1045.3
42.5°	773.0	801.0	883.1	987.3	1025.3
45°	726.9	761.0	853.1	959.2	997.3
47.5°	682.9	716.9	821.1	927.2	967.2
50°	634.8	674.9	783.0	891.1	933.2
52.5°	590.8	630.8	741.0	849.1	895.2
55°	540.7	588.8	696.9	803.0	841.1
57.5°	490.6	534.7	646.8	753.0	797.0
60°	446.6	486.6	596.8	700.9	743.0
62.5°	390.5	438.6	544.7	646.8	692.9
65°	344.4	390.5	488.6	592.8	640.8
67.5°	296.4	344.4	438.6	540.7	590.8
70°	250.3	294.4	384.5	486.6	536.7
72.5°	202.3	246.3	334.4	432.6	478.6
75°	162.2	204.3	282.4	374.5	418.5
77.5°	124.2	160.2	230.3	310.4	338.4
80°	88.1	118.2	176.2	220.3	234.3
82.5°	56.1	80.1	110.1	136.2	136.2
85°	32.0	44.1	56.1	70.1	68.1
87.5°	14.0	16.0	18.0	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)