

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: NEO-RAY

Report Number: P333908

Luminaire Tested: **S122RDW-S865D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDW-S865D935-4F0-1E-UDD-F
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 865 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2495.3 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

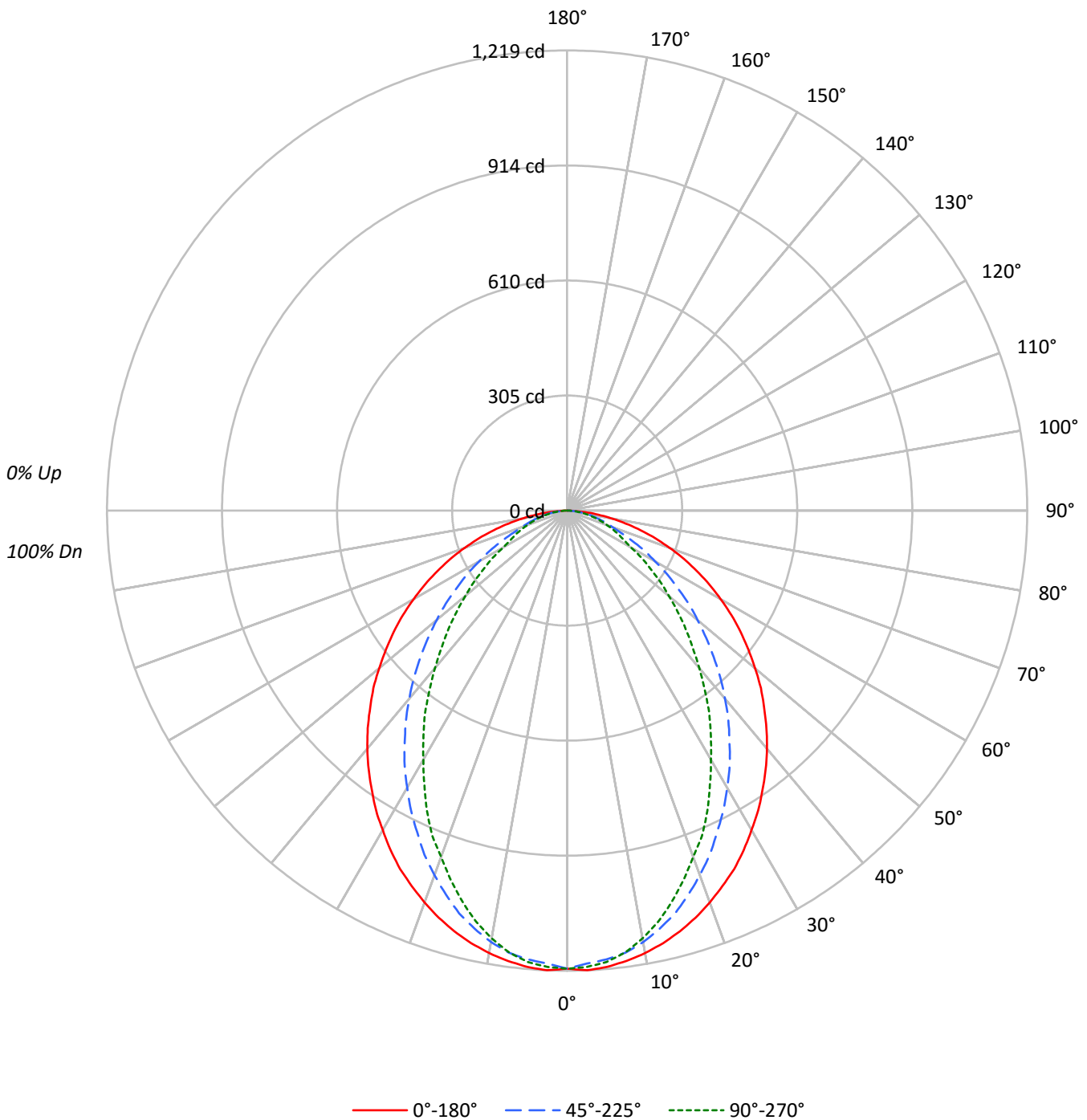
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19590	19590	19590
5°	19665	19344	19451
10°	19513	19028	18866
15°	19290	18464	17931
20°	18979	17658	16771
25°	18661	16744	15649
30°	18219	15802	14206
35°	17789	14781	12942
40°	17357	13723	11478
45°	16847	12536	10154
50°	16327	11336	8854
55°	15795	10044	7603
60°	15174	8686	6310
65°	14472	7297	5746
70°	13633	6014	5287
75°	12601	5477	4934
80°	11130	4900	4491
85°	8744	3872	3872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	4.6
10°-20°	312.2	12.5
20°-30°	438.3	17.6
30°-40°	477.7	19.1
40°-50°	439.1	17.6
50°-60°	344.8	13.8
60°-70°	224.4	9.0
70°-80°	115.6	4.6
80°-90°	29.5	1.2
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°	864.1	34.6
0°-40°	1341.8	53.8
0°-60°	2125.7	85.2
0°-90°	2495.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1213	1208	1194	1203	1200	115
15°	1154	1142	1105	1084	1073	325
25°	1048	1012	940	895	878	482
35°	902	846	750	681	657	565
45°	738	664	549	471	445	570
55°	561	475	357	291	270	501
65°	379	290	191	154	150	376
75°	202	125	88	80	79	214
85°	47	24	21	21	21	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.3	1213.3	1213.3	1213.3	1213.3
2.5°	1218.8	1213.3	1201.2	1212.2	1210.0
5°	1213.3	1207.8	1193.5	1203.4	1200.1
7.5°	1203.4	1196.8	1181.4	1185.8	1180.3
10°	1190.2	1182.5	1160.6	1157.3	1150.7
12.5°	1173.7	1163.9	1134.2	1127.6	1115.6
15°	1154.0	1141.9	1104.6	1083.7	1072.7
17.5°	1130.9	1113.4	1067.2	1043.1	1025.5
20°	1104.6	1082.6	1027.7	1000.3	976.1
22.5°	1076.0	1050.8	987.1	949.8	933.3
25°	1047.5	1012.3	939.9	894.9	878.4
27.5°	1013.4	976.1	896.0	844.4	819.1
30°	977.2	935.5	847.6	791.6	762.0
32.5°	942.1	891.6	801.5	735.6	708.2
35°	902.5	846.5	749.9	680.8	656.6
37.5°	864.1	803.7	701.6	625.9	598.4
40°	823.5	757.6	651.1	573.1	544.6
42.5°	781.8	711.5	600.6	519.3	491.9
45°	737.8	664.3	549.0	471.0	444.7
47.5°	696.1	618.2	499.6	421.6	397.5
50°	650.0	572.1	451.3	375.5	352.5
52.5°	605.0	522.6	405.2	332.7	311.8
55°	561.1	475.4	356.8	291.0	270.1
57.5°	516.1	428.2	314.0	252.5	235.0
60°	469.9	382.1	269.0	213.0	195.4
62.5°	424.9	337.1	230.6	177.9	169.1
65°	378.8	289.9	191.0	153.7	150.4
67.5°	334.9	245.9	153.7	135.1	131.8
70°	288.8	203.1	127.4	116.4	112.0
72.5°	244.9	163.6	106.5	97.7	95.5
75°	202.0	125.2	87.8	80.2	79.1
77.5°	159.2	88.9	69.2	64.8	62.6
80°	119.7	63.7	52.7	48.3	48.3
82.5°	83.4	42.8	36.2	34.0	34.0
85°	47.2	24.2	20.9	20.9	20.9
87.5°	17.6	8.8	8.8	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)