

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: P242895

Luminaire Tested: **S125RDR-S850D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S850D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2693.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

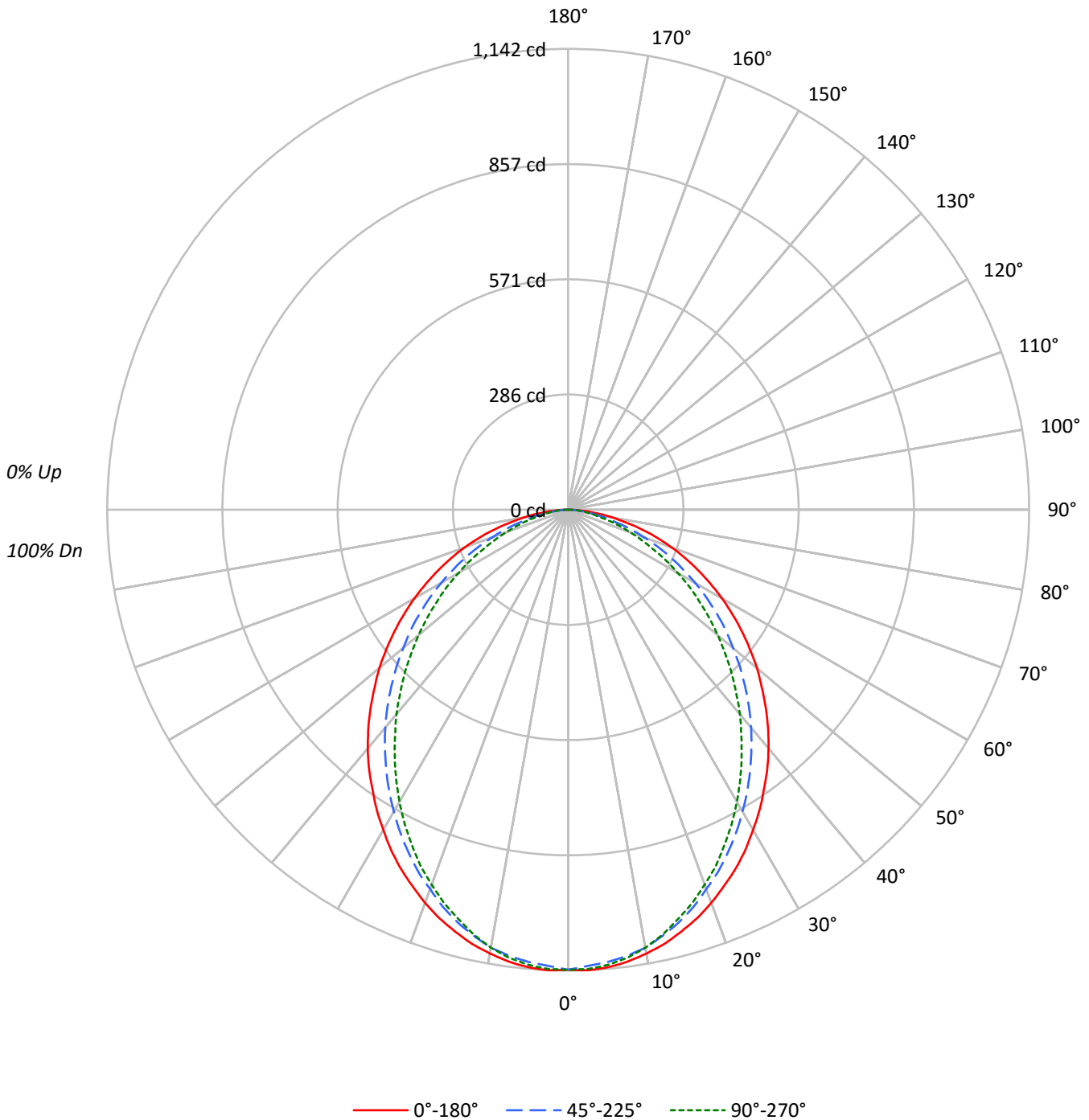
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242895

CATALOG NUMBER: S125RDR-S850D935-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242895

CATALOG NUMBER: S125RDR-S850D935-X4F0-XX-UDD-F-W

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	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8102	8102	8102
5°	8120	8028	8078
10°	8059	7954	7954
15°	7964	7792	7729
20°	7840	7567	7476
25°	7697	7346	7184
30°	7518	7087	6861
35°	7336	6821	6500
40°	7165	6543	6143
45°	6958	6231	5755
50°	6749	5893	5351
55°	6508	5569	4918
60°	6266	5177	4455
65°	5980	4721	3924
70°	5654	4152	3381
75°	5201	3498	2815
80°	4580	2750	2362
85°	3865	2251	2104



TEST NUMBER: P242895

CATALOG NUMBER: S125RDR-S850D935-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	4.0
10°-20°	299.8	11.1
20°-30°	434.7	16.1
30°-40°	495.3	18.4
40°-50°	482.8	17.9
50°-60°	406.3	15.1
60°-70°	284.7	10.6
70°-80°	146.0	5.4
80°-90°	36.4	1.4
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°	841.9	31.3
0°-40°	1337.2	49.6
0°-60°	2226.2	82.7
0°-90°	2693.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2693.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1138	1135	1125	1134	1132	108
15°	1082	1077	1059	1058	1050	305
25°	982	969	937	926	916	452
35°	846	825	786	761	749	529
45°	692	667	620	586	573	534
55°	525	498	449	411	397	470
65°	356	326	281	246	233	352
75°	189	164	127	108	102	200
85°	47	32	28	27	26	55
90°	0	0	0	0	0	



TEST NUMBER: P242895

CATALOG NUMBER: S125RDR-S850D935-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.0	1140.0	1140.0	1140.0	1140.0
2.5°	1142.5	1140.0	1131.4	1140.0	1139.1
5°	1138.2	1134.8	1125.3	1133.9	1132.2
7.5°	1129.6	1126.2	1115.0	1121.9	1120.2
10°	1116.7	1114.1	1102.1	1104.7	1102.1
12.5°	1102.1	1098.6	1081.4	1083.1	1078.8
15°	1082.3	1077.1	1059.0	1058.2	1050.4
17.5°	1061.6	1053.9	1032.3	1028.0	1022.0
20°	1036.6	1028.0	1000.5	996.2	988.4
22.5°	1009.1	1000.5	971.2	961.7	955.7
25°	981.5	968.6	936.8	925.6	916.1
27.5°	950.5	935.0	901.5	886.8	877.4
30°	916.1	899.7	863.6	843.8	836.0
32.5°	882.5	862.7	825.7	803.3	793.0
35°	845.5	824.8	786.1	761.1	749.1
37.5°	810.2	785.2	745.6	716.4	704.3
40°	772.3	746.5	705.2	672.4	662.1
42.5°	732.7	706.0	663.0	632.0	615.6
45°	692.2	667.3	619.9	585.5	572.6
47.5°	650.1	624.2	576.9	541.6	526.9
50°	610.4	582.0	533.0	496.8	483.9
52.5°	567.4	538.1	492.5	452.9	440.0
55°	525.2	497.7	449.4	410.7	396.9
57.5°	482.2	452.9	406.4	368.5	356.5
60°	440.8	410.7	364.2	326.3	313.4
62.5°	396.9	368.5	321.2	286.7	273.8
65°	355.6	326.3	280.7	246.2	233.3
67.5°	314.3	285.0	241.1	208.4	198.0
70°	272.1	242.8	199.8	173.1	162.7
72.5°	230.7	202.3	162.7	138.6	132.6
75°	189.4	163.6	127.4	108.5	102.5
77.5°	147.2	126.6	96.4	81.8	76.6
80°	111.9	91.3	67.2	59.4	57.7
82.5°	77.5	59.4	44.8	42.2	41.3
85°	47.4	31.9	27.6	26.7	25.8
87.5°	19.8	13.8	12.9	12.9	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)