

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: P243753

Luminaire Tested: **S125RDR-H375D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H375D935-X4F0-XX-UDD-F-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

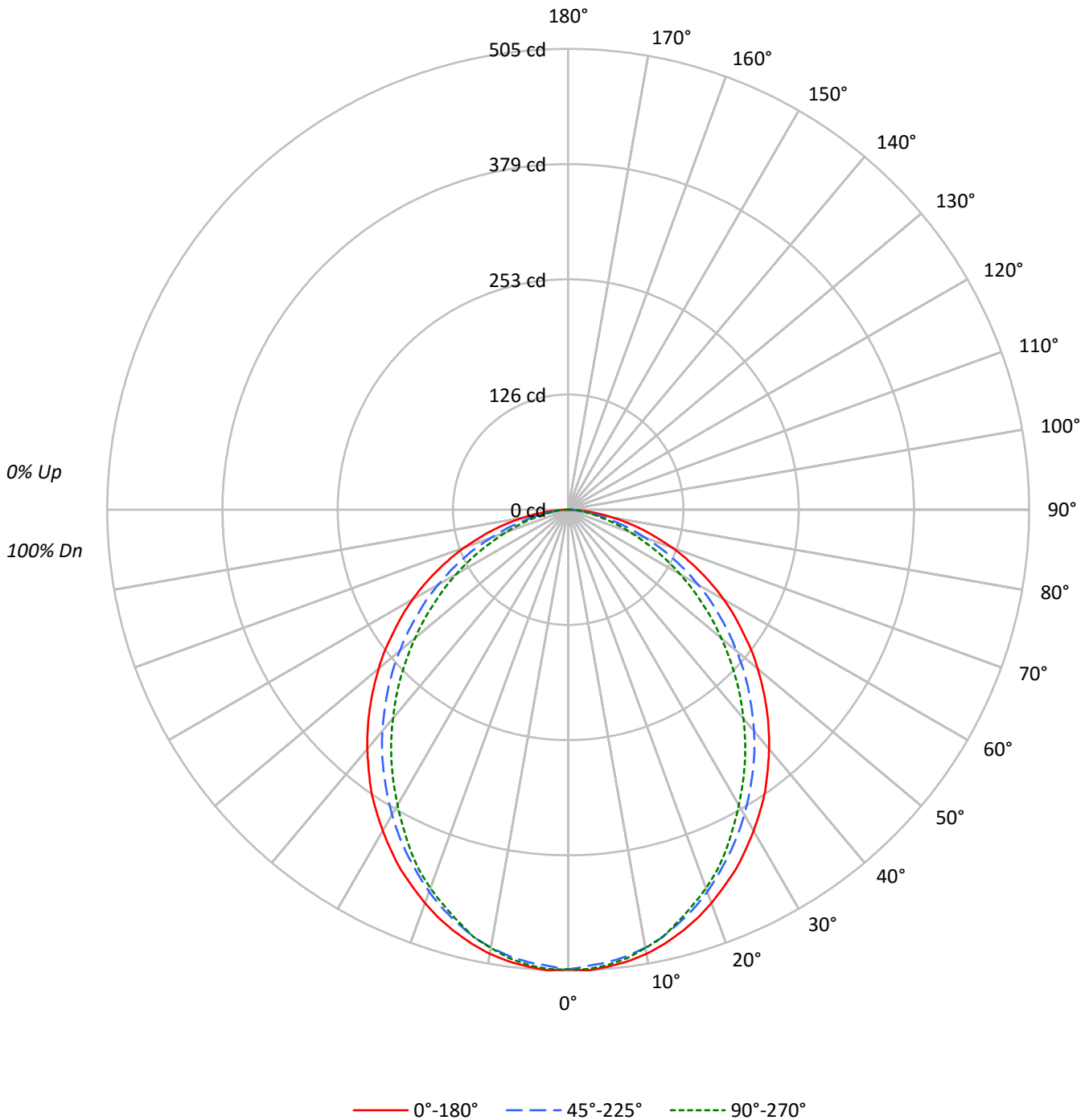
Lumens per Lamp: N/A  
Luminaire Lumens: 1204.4 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	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	63	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	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3581	3581	3581
5°	3587	3552	3572
10°	3567	3517	3520
15°	3525	3450	3435
20°	3470	3370	3339
25°	3409	3270	3217
30°	3334	3168	3068
35°	3265	3056	2927
40°	3177	2939	2769
45°	3087	2807	2605
50°	2998	2663	2419
55°	2890	2501	2224
60°	2803	2337	2014
65°	2667	2139	1783
70°	2517	1872	1521
75°	2315	1563	1238
80°	2034	1212	1019
85°	1737	1003	938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.5	3.9
10°-20°	132.9	11.0
20°-30°	193.4	16.1
30°-40°	221.5	18.4
40°-50°	216.8	18.0
50°-60°	183.0	15.2
60°-70°	128.1	10.6
70°-80°	65.1	5.4
80°-90°	16.0	1.3
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°	373.8	31.0
0°-40°	595.4	49.4
0°-60°	995.2	82.6
0°-90°	1204.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	503	502	498	501	501	48
15°	479	477	469	469	467	135
25°	435	430	417	413	410	200
35°	376	367	352	342	337	235
45°	307	297	279	265	259	237
55°	233	223	202	186	180	209
65°	159	146	127	111	106	157
75°	84	74	57	48	45	89
85°	21	14	12	12	12	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.9	503.9	503.9	503.9	503.9
2.5°	505.3	504.3	500.3	503.9	503.9
5°	502.8	501.7	497.8	501.0	500.7
7.5°	499.2	498.1	493.4	496.7	495.6
10°	494.2	492.7	487.3	489.1	487.7
12.5°	487.3	485.9	479.4	480.1	479.4
15°	479.0	477.2	468.9	468.6	466.8
17.5°	469.7	467.1	458.1	457.0	454.2
20°	458.8	455.6	445.5	443.3	441.5
22.5°	446.6	443.3	431.4	428.2	427.1
25°	434.7	429.6	417.0	412.7	410.2
27.5°	420.6	414.9	401.9	396.1	391.8
30°	406.2	399.7	386.0	378.5	373.8
32.5°	391.4	383.9	369.1	359.7	355.8
35°	376.3	367.3	352.2	341.7	337.4
37.5°	359.0	350.0	334.9	322.6	318.6
40°	342.4	333.0	316.8	303.5	298.4
42.5°	325.1	315.4	297.7	283.7	279.3
45°	307.1	297.0	279.3	264.6	259.2
47.5°	289.1	279.0	260.6	245.8	239.0
50°	271.1	260.2	240.8	225.6	218.8
52.5°	253.0	241.1	222.0	205.8	199.7
55°	233.2	223.1	201.8	185.6	179.5
57.5°	215.5	204.4	184.2	167.6	160.8
60°	197.2	184.9	164.4	148.1	141.7
62.5°	177.7	165.4	145.6	129.4	123.6
65°	158.6	146.3	127.2	111.4	106.0
67.5°	139.5	128.0	108.9	94.1	87.9
70°	121.1	109.2	90.1	76.8	73.2
72.5°	101.6	92.3	73.2	61.3	58.4
75°	84.3	73.9	56.9	47.6	45.1
77.5°	66.7	56.6	42.2	35.7	33.5
80°	49.7	41.1	29.6	25.6	24.9
82.5°	34.2	26.0	19.5	18.7	18.4
85°	21.3	13.7	12.3	11.5	11.5
87.5°	9.0	5.8	5.8	5.4	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)