

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: P243739

Luminaire Tested: **S125RDR-H375D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243739
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-H375D835-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1398.9 lumens
Efficiency: N/A
Efficacy: 124.9 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

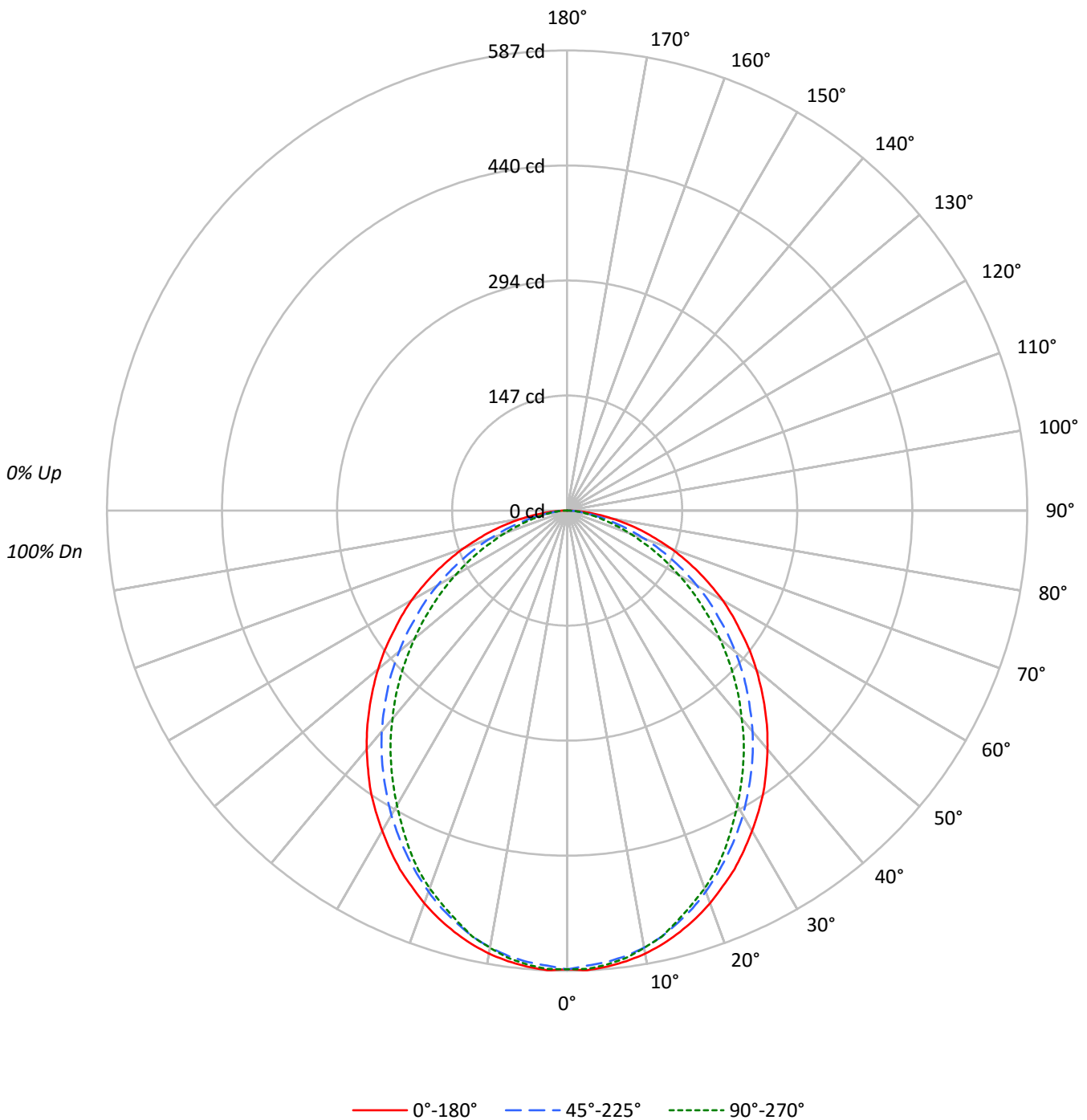
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4159	4159	4159
5°	4167	4124	4149
10°	4142	4085	4088
15°	4094	4007	3989
20°	4031	3913	3879
25°	3959	3799	3736
30°	3872	3680	3563
35°	3792	3549	3399
40°	3690	3414	3216
45°	3585	3261	3025
50°	3481	3092	2810
55°	3357	2905	2584
60°	3255	2714	2338
65°	3098	2486	2070
70°	2924	2176	1766
75°	2691	1815	1436
80°	2366	1404	1183
85°	2014	1158	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.9
10°-20°	154.4	11.0
20°-30°	224.7	16.1
30°-40°	257.3	18.4
40°-50°	251.8	18.0
50°-60°	212.6	15.2
60°-70°	148.8	10.6
70°-80°	75.6	5.4
80°-90°	18.6	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°	434.2	31.0
0°-40°	691.5	49.4
0°-60°	1155.9	82.6
0°-90°	1398.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	584	583	578	582	582	55
15°	556	554	545	544	542	157
25°	505	499	484	479	476	232
35°	437	427	409	397	392	273
45°	357	345	324	307	301	275
55°	271	259	234	216	208	243
65°	184	170	148	129	123	182
75°	98	86	66	55	52	104
85°	25	16	14	13	13	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	585.2	585.2	585.2	585.2	585.2
2.5°	586.9	585.7	581.1	585.2	585.2
5°	584.0	582.7	578.1	581.9	581.5
7.5°	579.8	578.5	573.1	576.9	575.6
10°	573.9	572.3	566.0	568.1	566.4
12.5°	566.0	564.3	556.8	557.6	556.8
15°	556.4	554.3	544.6	544.2	542.1
17.5°	545.5	542.5	532.1	530.8	527.5
20°	532.9	529.1	517.4	514.9	512.8
22.5°	518.7	514.9	501.1	497.3	496.1
25°	504.9	499.0	484.4	479.3	476.4
27.5°	488.5	481.8	466.8	460.1	455.1
30°	471.8	464.3	448.4	439.6	434.1
32.5°	454.6	445.8	428.7	417.8	413.2
35°	437.1	426.6	409.0	396.9	391.8
37.5°	417.0	406.5	388.9	374.7	370.1
40°	397.7	386.8	368.0	352.5	346.6
42.5°	377.6	366.3	345.8	329.5	324.4
45°	356.7	345.0	324.4	307.3	301.0
47.5°	335.7	324.0	302.7	285.5	277.6
50°	314.8	302.3	279.6	262.1	254.1
52.5°	293.9	280.1	257.9	239.0	231.9
55°	270.9	259.1	234.4	215.6	208.5
57.5°	250.3	237.4	213.9	194.7	186.7
60°	229.0	214.8	190.9	172.1	164.5
62.5°	206.4	192.2	169.1	150.3	143.6
65°	184.2	170.0	147.8	129.4	123.1
67.5°	162.0	148.6	126.4	109.3	102.1
70°	140.7	126.8	104.7	89.2	85.0
72.5°	118.1	107.2	85.0	71.2	67.8
75°	98.0	85.8	66.1	55.3	52.3
77.5°	77.4	65.7	49.0	41.4	38.9
80°	57.8	47.7	34.3	29.7	28.9
82.5°	39.8	30.1	22.6	21.8	21.4
85°	24.7	15.9	14.2	13.4	13.4
87.5°	10.5	6.7	6.7	6.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)