

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: P243743

Luminaire Tested: **S125RDR-H375D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243743
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-H375D840-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1412.7 lumens
Efficiency: N/A
Efficacy: 126.1 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

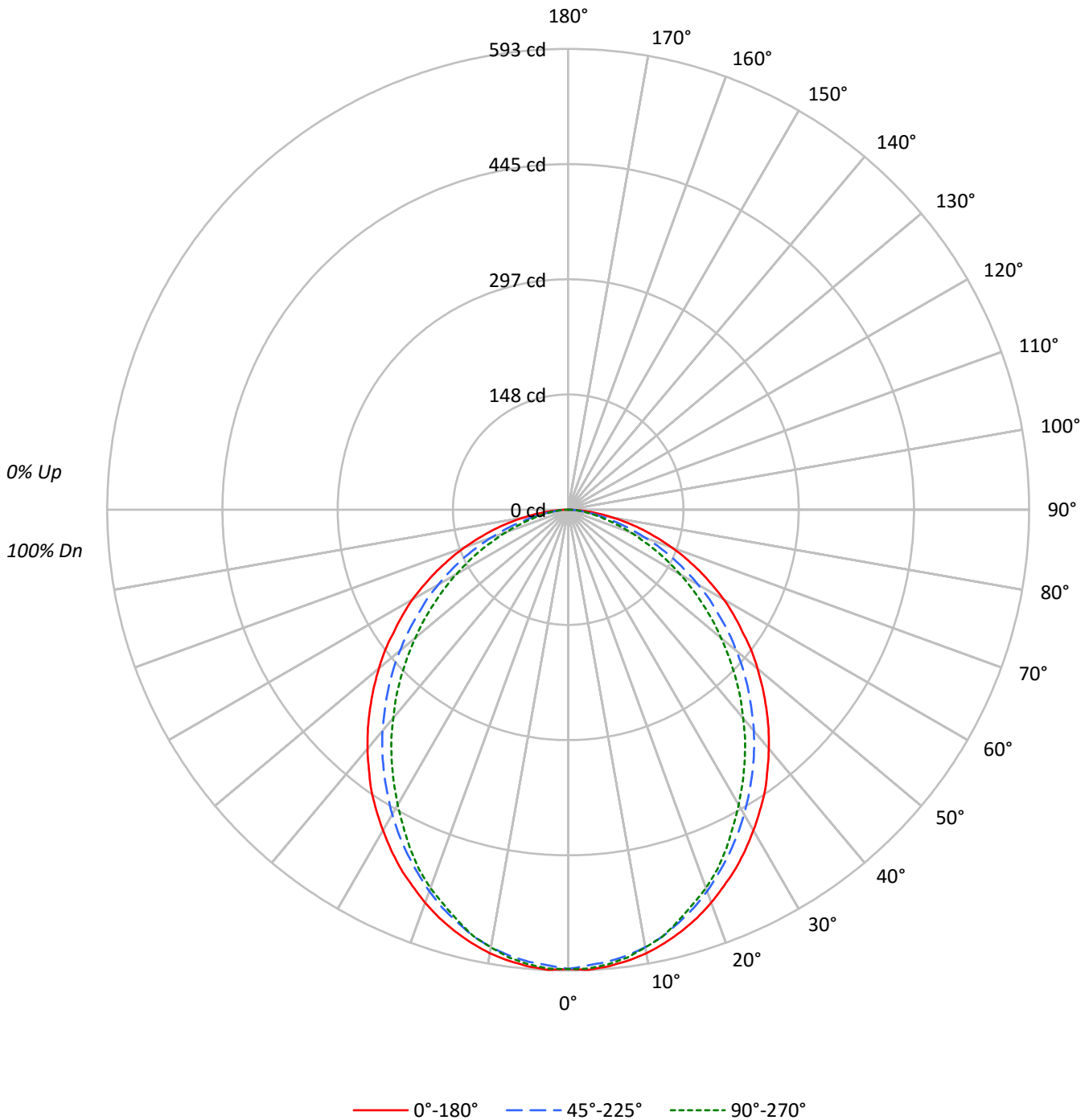
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4200	4200	4200
5°	4208	4165	4189
10°	4183	4125	4128
15°	4134	4047	4029
20°	4071	3952	3917
25°	3998	3836	3773
30°	3911	3716	3598
35°	3830	3583	3433
40°	3726	3448	3247
45°	3620	3293	3056
50°	3515	3123	2837
55°	3389	2933	2608
60°	3288	2741	2361
65°	3128	2509	2090
70°	2951	2196	1783
75°	2716	1834	1450
80°	2386	1420	1195
85°	2031	1174	1101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.9
10°-20°	155.9	11.0
20°-30°	226.9	16.1
30°-40°	259.8	18.4
40°-50°	254.3	18.0
50°-60°	214.7	15.2
60°-70°	150.3	10.6
70°-80°	76.3	5.4
80°-90°	18.8	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°	438.5	31.0
0°-40°	698.3	49.4
0°-60°	1167.3	82.6
0°-90°	1412.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	591	591	591	591	591	
5°	590	588	584	588	587	56
15°	562	560	550	550	548	158
25°	510	504	489	484	481	235
35°	441	431	413	401	396	276
45°	360	348	328	310	304	278
55°	274	262	237	218	210	245
65°	186	172	149	131	124	184
75°	99	87	67	56	53	105
85°	25	16	14	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.0	591.0	591.0	591.0	591.0
2.5°	592.7	591.4	586.8	591.0	591.0
5°	589.8	588.5	583.8	587.6	587.2
7.5°	585.5	584.3	578.8	582.6	581.3
10°	579.6	577.9	571.6	573.7	572.0
12.5°	571.6	569.9	562.3	563.1	562.3
15°	561.8	559.7	550.0	549.6	547.5
17.5°	550.9	547.9	537.3	536.1	532.7
20°	538.2	534.4	522.5	520.0	517.9
22.5°	523.8	520.0	506.0	502.2	501.0
25°	509.8	503.9	489.1	484.1	481.1
27.5°	493.4	486.6	471.4	464.6	459.5
30°	476.5	468.8	452.8	443.9	438.4
32.5°	459.1	450.2	432.9	421.9	417.3
35°	441.4	430.8	413.0	400.8	395.7
37.5°	421.1	410.5	392.7	378.4	373.7
40°	401.6	390.6	371.6	356.0	350.0
42.5°	381.3	369.9	349.2	332.7	327.6
45°	360.2	348.4	327.6	310.3	304.0
47.5°	339.1	327.2	305.7	288.3	280.3
50°	317.9	305.2	282.4	264.6	256.6
52.5°	296.8	282.8	260.4	241.4	234.2
55°	273.5	261.7	236.7	217.7	210.5
57.5°	252.8	239.7	216.0	196.6	188.6
60°	231.3	216.9	192.8	173.8	166.1
62.5°	208.4	194.0	170.8	151.8	145.0
65°	186.0	171.6	149.2	130.6	124.3
67.5°	163.6	150.1	127.7	110.3	103.2
70°	142.0	128.1	105.7	90.0	85.8
72.5°	119.2	108.2	85.8	71.9	68.5
75°	98.9	86.7	66.8	55.8	52.8
77.5°	78.2	66.4	49.5	41.9	39.3
80°	58.3	48.2	34.7	30.0	29.2
82.5°	40.2	30.4	22.8	22.0	21.6
85°	24.9	16.1	14.4	13.5	13.5
87.5°	10.6	6.8	6.8	6.3	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)