

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: P334076

Luminaire Tested: **S123RDP-S560D930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDP-S560D930-4F0-1E-UDD-F
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 560 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1630.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

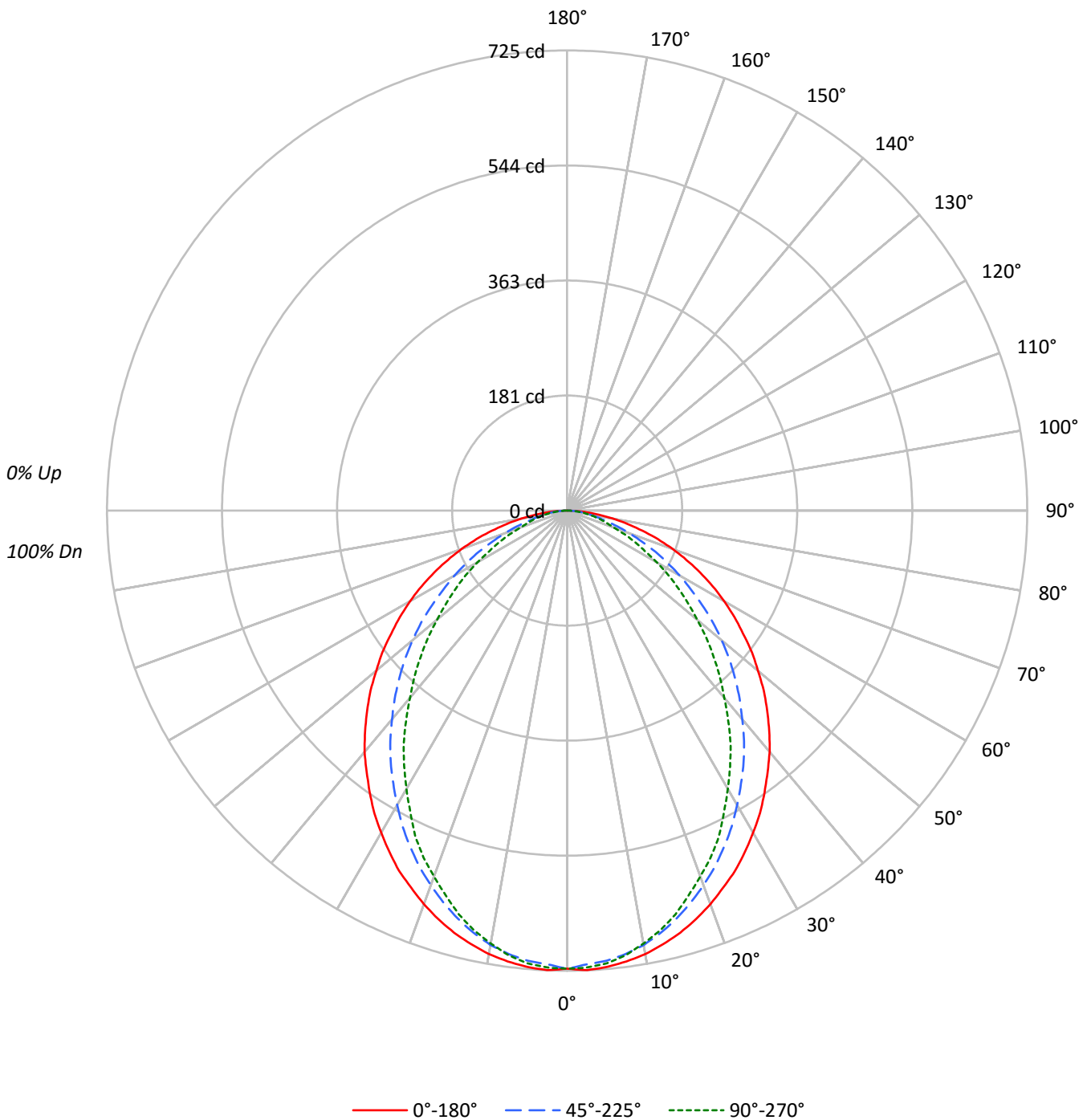
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7769	7769	7769
5°	7799	7692	7736
10°	7755	7595	7569
15°	7671	7417	7339
20°	7558	7195	7027
25°	7440	6945	6723
30°	7283	6657	6294
35°	7123	6369	5900
40°	6975	6029	5413
45°	6782	5695	4973
50°	6568	5313	4479
55°	6351	4877	4022
60°	6151	4411	3515
65°	5889	3907	3013
70°	5564	3279	2433
75°	5090	2583	2287
80°	4537	2287	2108
85°	3829	2025	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	4.2
10°-20°	188.8	11.6
20°-30°	271.8	16.7
30°-40°	306.1	18.8
40°-50°	292.8	18.0
50°-60°	239.7	14.7
60°-70°	161.6	9.9
70°-80°	81.0	5.0
80°-90°	21.2	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°	528.4	32.4
0°-40°	834.5	51.2
0°-60°	1366.9	83.8
0°-90°	1630.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	722	719	712	717	716	68
15°	688	682	666	663	659	194
25°	626	612	585	572	566	288
35°	542	521	485	460	449	339
45°	446	419	374	341	327	344
55°	338	310	260	226	214	303
65°	231	199	153	125	118	229
75°	122	94	62	56	55	130
85°	31	18	16	15	15	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	721.8	721.8	721.8	721.8	721.8
2.5°	724.7	722.4	715.4	721.8	720.6
5°	721.8	718.9	711.9	717.1	716.0
7.5°	716.5	713.6	704.8	708.3	706.6
10°	709.5	705.4	694.9	695.5	692.5
12.5°	699.6	694.9	681.4	680.8	677.3
15°	688.4	682.0	665.6	662.7	658.6
17.5°	675.0	667.9	647.5	641.6	635.8
20°	659.8	650.4	628.1	620.5	613.5
22.5°	642.8	631.7	607.7	597.7	591.3
25°	626.4	611.8	584.8	572.5	566.1
27.5°	606.5	590.7	561.4	545.0	535.1
30°	586.0	568.4	535.6	515.7	506.4
32.5°	565.5	545.0	509.9	487.6	477.7
35°	542.1	521.0	484.7	459.5	449.0
37.5°	518.7	495.8	457.8	429.7	416.8
40°	496.4	470.7	429.1	398.7	385.2
42.5°	471.3	445.5	402.2	368.2	356.5
45°	445.5	419.2	374.1	340.7	326.7
47.5°	420.3	391.1	346.6	310.3	298.0
50°	392.2	364.7	317.3	281.0	267.5
52.5°	367.1	336.6	289.8	251.7	240.0
55°	338.4	309.7	259.9	226.0	214.3
57.5°	312.6	281.6	231.2	199.0	189.1
60°	285.7	253.5	204.9	173.3	163.3
62.5°	258.7	226.6	178.0	148.7	138.2
65°	231.2	199.0	153.4	124.7	118.3
67.5°	203.7	170.9	126.4	104.8	97.8
70°	176.8	145.2	104.2	83.7	77.3
72.5°	149.9	118.8	82.5	66.7	65.0
75°	122.4	94.3	62.1	56.2	55.0
77.5°	97.2	71.4	48.6	45.1	43.9
80°	73.2	49.2	36.9	35.1	34.0
82.5°	50.3	30.4	26.3	24.6	24.6
85°	31.0	18.1	16.4	15.2	15.2
87.5°	14.0	7.6	7.6	7.0	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)