

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: P33919

Luminaire Tested: **S125DW-135-0048-1D-UDD-4-W**

Test Date: 03/06/15

Test Information

Test Method: LM-79-08
Report Number: P33919
Test Lab: INNOVATION CENTER-P3
Test Date: 03/06/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DW-135-0048-1D-UDD-4-W
Description: NEORAY DIRECT- INDIRECT 5" FIXTURE WITH A DROP DIFFUSE LENS.LL1
Light Source: [117] NICHIA 3500K LED
Nichia 757D
Ballast/Driver: [1] OSRAM SYLVANIA ELECTRONIC DRIVER
OT50WPRG1400C

Summary

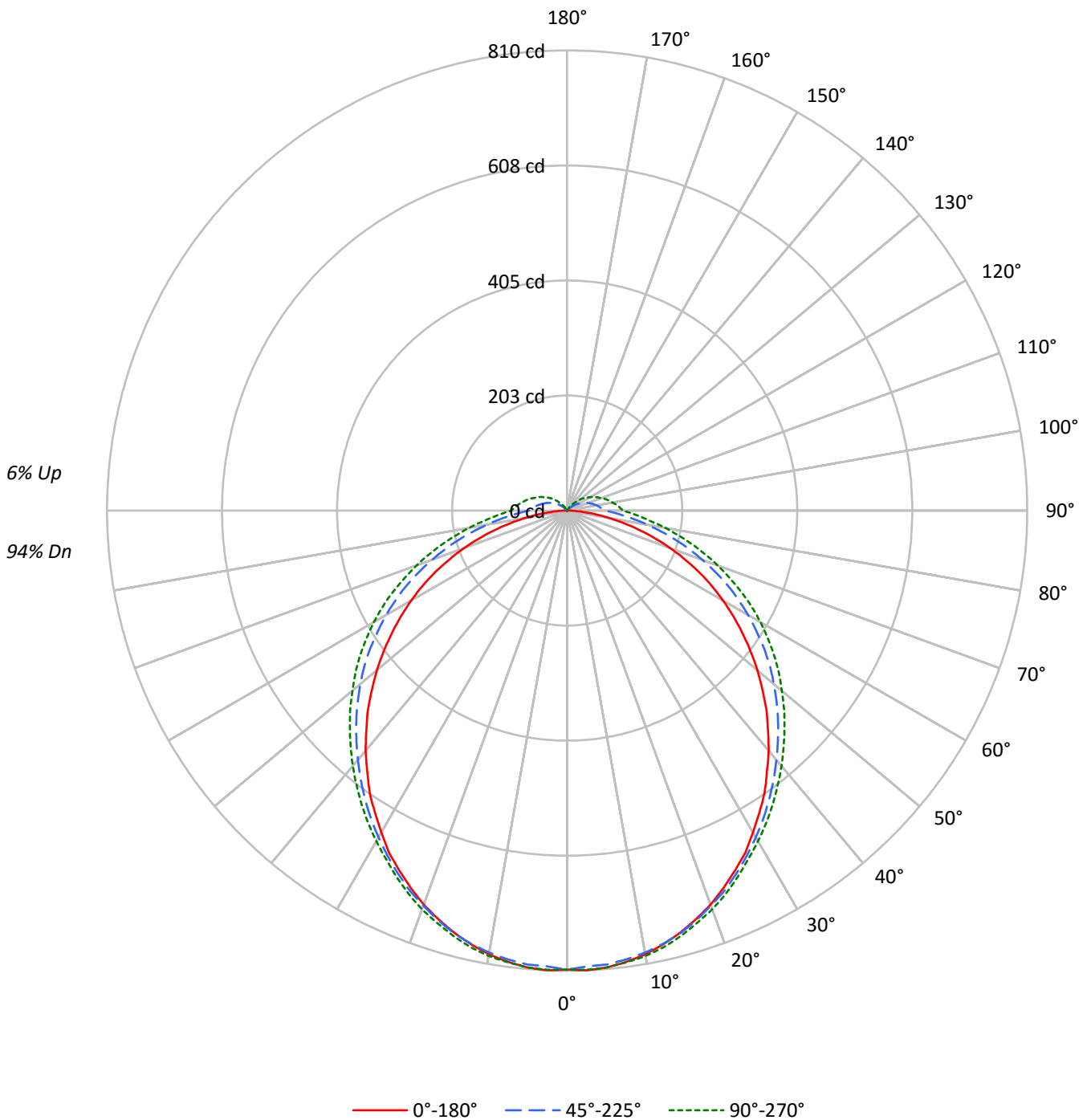
Lumens per Lamp: N/A
Luminaire Lumens: 2546.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 28.2
Input Voltage (V): 120.0
Input Current (A_{in}): 0.236
Voltage Rise (V): NR
Power Factor: 0.9972
Total Harmonic Distortion (THDi): 7.39
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT

TEST NUMBER: P33919

CATALOG NUMBER: S125DW-135-0048-1D-UDD-4-W

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	69	65	63
3	87	77	68	61	84	74	67	60	71	64	58	67	61	57	64	59	55	52
4	80	68	59	52	77	66	57	51	63	55	50	59	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	51	43	37	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	57	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5218	5218	5218
5°	5213	5061	5055
10°	5163	4910	4876
15°	5085	4751	4680
20°	4996	4567	4482
25°	4886	4385	4270
30°	4763	4195	4071
35°	4642	4011	3886
40°	4497	3828	3705
45°	4349	3654	3529
50°	4183	3478	3354
55°	4007	3294	3189
60°	3819	3085	2999
65°	3591	2855	2780
70°	3270	2571	2537
75°	2851	2270	2272
80°	2226	1919	1991
85°	1456	1605	1742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	217.7	8.5
20°-30°	325.6	12.8
30°-40°	388.3	15.2
40°-50°	403.8	15.9
50°-60°	373.8	14.7
60°-70°	302.1	11.9
70°-80°	200.7	7.9
80°-90°	102.2	4.0
90°-100°	58.1	2.3
100°-110°	43.6	1.7
110°-120°	29.1	1.1
120°-130°	16.5	0.6
130°-140°	7.2	0.3
140°-150°	1.4	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	619.9	24.3
0°-40°	1008.2	39.6
0°-60°	1785.8	70.1
0°-90°	2390.8	93.9
90°-120°	130.8	5.1
90°-150°	155.8	6.1
90°-180°	156.0	6.1
0°-180°	2546.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	807	806	802	807	807	77
15°	769	771	770	776	775	217
25°	699	705	705	712	711	322
35°	606	614	620	629	631	378
45°	496	511	525	538	541	382
55°	377	399	423	439	445	337
65°	256	282	312	332	338	253
75°	132	163	197	219	227	140
85°	29	63	99	123	131	33
90°	0	32	67	91	98	2
95°	0	26	59	82	90	0
105°	0	16	46	66	73	1
115°	0	7	32	50	56	0
125°	1	1	18	34	39	1
135°	1	0	6	18	22	1
145°	1	1	0	4	7	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P33919

CATALOG NUMBER: S125DW-135-0048-1D-UDD-4-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808	808	808	808	808
2.5°	810	809	803	809	809
5°	807	806	802	807	807
7.5°	801	801	797	803	802
10°	793	794	790	796	796
12.5°	782	783	781	787	787
15°	769	771	770	776	775
17.5°	754	758	756	762	761
20°	738	742	740	747	747
22.5°	719	724	724	730	730
25°	699	705	705	712	711
27.5°	679	685	685	692	691
30°	654	662	664	672	672
32.5°	630	639	643	650	652
35°	606	614	620	629	631
37.5°	578	590	597	608	609
40°	552	564	573	585	587
42.5°	523	538	549	562	564
45°	496	511	525	538	541
47.5°	466	484	500	514	518
50°	437	456	475	490	493
52.5°	407	428	450	465	470
55°	377	399	423	439	445
57.5°	347	371	395	413	419
60°	317	341	368	386	393
62.5°	287	311	340	359	366
65°	256	282	312	332	338
67.5°	224	252	282	303	309
70°	193	222	253	275	282
72.5°	162	192	225	247	254
75°	132	163	197	219	227
77.5°	102	135	169	192	200
80°	74	108	143	166	175
82.5°	50	84	120	144	151
85°	29	63	99	123	131
87.5°	13	46	82	105	113
90°	0	32	67	91	98
92.5°	0	29	63	86	94
95°	0	26	59	82	90
97.5°	0	24	56	78	86
100°	0	21	53	74	81
102.5°	0	19	49	70	77
105°	0	16	46	66	73
107.5°	1	14	42	62	69
110°	1	12	39	58	64



TEST NUMBER: P33919

CATALOG NUMBER: S125DW-135-0048-1D-UDD-4-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	9	35	54	60
115°	0	7	32	50	56
117.5°	0	5	28	46	52
120°	1	3	25	42	47
122.5°	1	1	22	37	43
125°	1	1	18	34	39
127.5°	0	1	15	30	35
130°	1	0	12	26	31
132.5°	1	1	9	22	27
135°	1	0	6	18	22
137.5°	1	0	4	14	18
140°	1	1	1	11	14
142.5°	1	1	0	7	10
145°	1	1	0	4	7
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)