

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027756

Luminaire Tested: S125DIP-B375D1090UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027756
REPORT IS A COMBINATION OF REPORTS P1001827 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

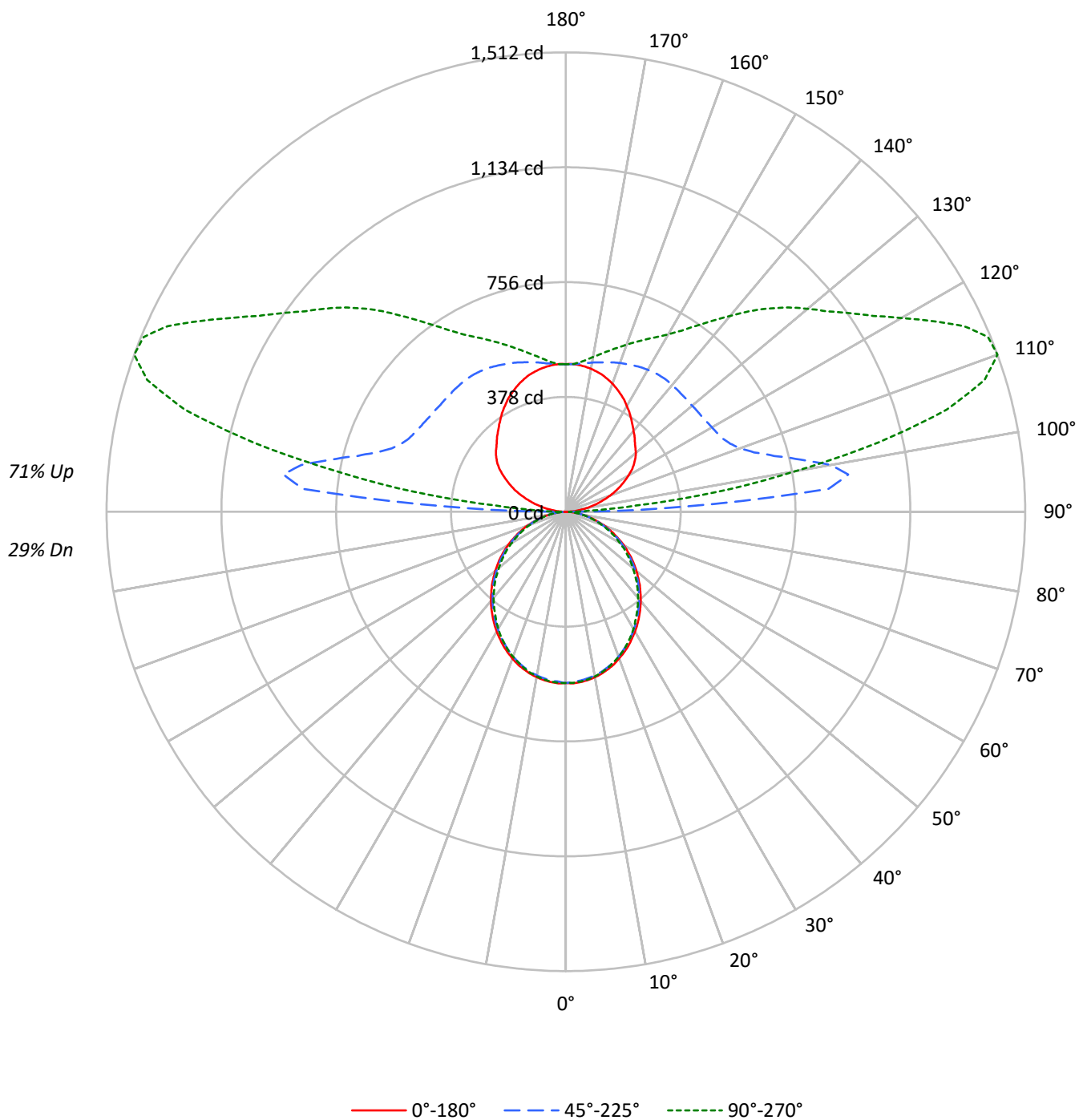
Lumens per Lamp: N/A
Luminaire Lumens: 5126.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	22	20	19
5	65	53	46	40	58	48	41	36	38	33	29	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.0
10°-20°	150.2	2.9
20°-30°	221.8	4.3
30°-40°	258.8	5.0
40°-50°	259.9	5.1
50°-60°	228.1	4.5
60°-70°	169.9	3.3
70°-80°	97.1	1.9
80°-90°	29.9	0.6
90°-100°	366.0	7.1
100°-110°	760.1	14.8
110°-120°	710.0	13.8
120°-130°	574.5	11.2
130°-140°	461.6	9.0
140°-150°	348.4	6.8
150°-160°	245.3	4.8
160°-170°	144.6	2.8
170°-180°	47.0	0.9
0°-30°	425.2	8.3
0°-40°	684.0	13.3
0°-60°	1172.0	22.9
0°-90°	1468.9	28.7
90°-120°	1836.1	35.8
90°-150°	3220.6	62.8
90°-180°	3658.0	71.4
0°-180°	5126.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	9	16	21	22	4
95°	32	96	868	394	230	34
105°	111	155	710	1399	1298	117
115°	198	239	570	1229	1446	195
125°	274	321	547	978	1140	244
135°	321	386	543	820	946	249
145°	374	429	545	678	747	235
155°	427	460	531	600	626	197
165°	466	479	510	540	549	131
175°	485	485	489	495	493	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	1.0	8.8	15.7	20.6	22.5
92.5°	14.7	80.4	390.9	104.4	72.5
95°	32.3	95.6	868.1	393.8	230.2
97.5°	50.0	103.4	937.6	711.3	504.6
100°	68.6	118.6	884.7	1005.2	764.2
102.5°	89.2	135.7	791.7	1254.1	1054.2
105°	110.7	154.8	710.3	1398.6	1298.2
107.5°	131.3	174.8	649.6	1439.2	1445.2
110°	153.8	196.0	609.4	1400.6	1511.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	217.0	585.9	1319.8	1503.9
115°	197.9	238.6	570.2	1229.1	1446.1
117.5°	217.5	260.6	561.4	1146.8	1358.9
120°	237.1	281.6	555.5	1077.8	1274.7
122.5°	257.7	302.2	550.6	1022.4	1200.2
125°	274.3	321.4	546.7	977.8	1139.5
127.5°	288.1	340.0	544.8	939.6	1083.6
130°	300.8	357.6	542.8	900.9	1039.5
132.5°	310.6	373.3	542.8	859.2	995.4
135°	321.4	386.5	542.8	819.6	946.5
137.5°	335.1	398.8	543.8	777.9	895.5
140°	346.8	409.0	544.8	739.7	841.6
142.5°	360.6	418.8	545.7	706.9	791.7
145°	374.3	428.6	544.8	678.5	746.6
147.5°	389.0	437.5	542.8	654.0	706.4
150°	401.7	445.3	539.9	633.9	674.1
152.5°	415.4	453.2	535.9	616.8	648.6
155°	427.2	459.6	531.0	600.1	626.1
157.5°	438.0	465.9	526.1	584.4	605.5
160°	448.7	470.8	521.2	568.8	584.9
162.5°	457.6	475.6	515.4	554.6	566.3
165°	466.4	479.1	509.5	540.3	548.7
167.5°	472.2	481.0	503.6	527.2	532.0
170°	478.1	483.5	498.7	514.4	517.3
172.5°	482.0	484.5	492.8	504.1	503.6
175°	485.0	485.0	488.9	494.8	492.8
177.5°	486.9	485.0	486.0	488.9	486.0
180°	486.0	486.0	486.0	486.0	486.0

(END OF REPORT)