

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: P1027819

Luminaire Tested: S125DIP-B375D1270UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027819
REPORT IS A COMBINATION OF REPORTS P1001920 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

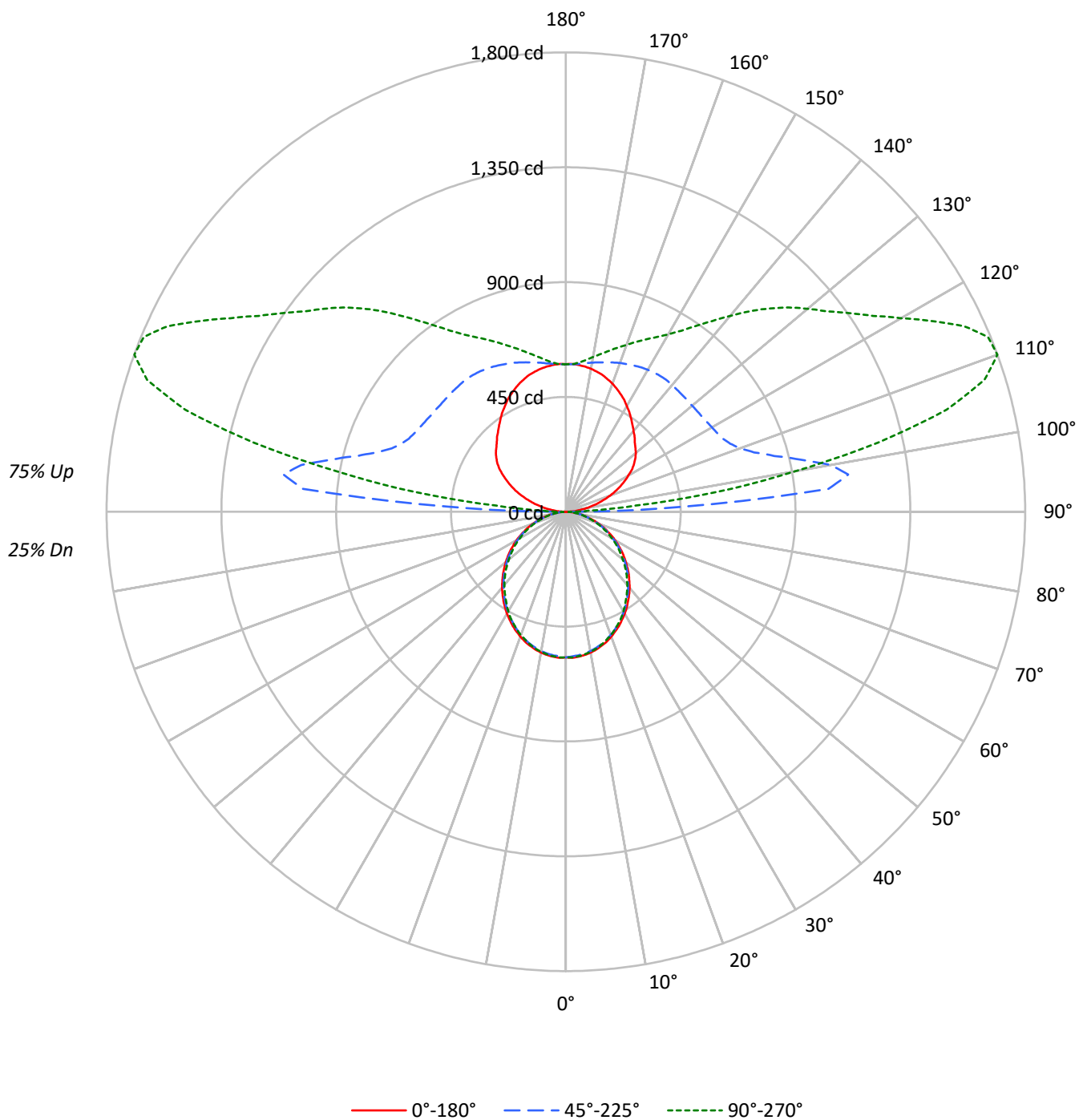
Lumens per Lamp: N/A
Luminaire Lumens: 5841.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (Ain): 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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	67	60	55	68	60	54	50	47	43	39	35	32	30	23	21	20
4	70	60	52	46	62	53	47	42	42	37	33	31	28	25	21	19	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	17	15
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10
9	47	35	28	23	42	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	0.9
10°-20°	152.2	2.6
20°-30°	224.7	3.8
30°-40°	262.1	4.5
40°-50°	263.3	4.5
50°-60°	231.1	4.0
60°-70°	172.1	2.9
70°-80°	98.3	1.7
80°-90°	30.7	0.5
90°-100°	435.6	7.5
100°-110°	904.8	15.5
110°-120°	845.1	14.5
120°-130°	683.8	11.7
130°-140°	549.4	9.4
140°-150°	414.7	7.1
150°-160°	292.0	5.0
160°-170°	172.1	2.9
170°-180°	56.0	1.0
0°-30°	430.7	7.4
0°-40°	692.8	11.9
0°-60°	1187.2	20.3
0°-90°	1488.3	25.5
90°-120°	2185.5	37.4
90°-150°	3833.5	65.6
90°-180°	4354.0	74.5
0°-180°	5841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	1	10	19	24	27	4
95°	38	114	1033	469	274	40
105°	132	184	846	1665	1545	139
115°	236	284	679	1463	1721	232
125°	326	382	651	1164	1356	290
135°	382	460	646	976	1127	297
145°	446	510	648	808	889	279
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	1.2	10.5	18.7	24.5	26.8
92.5°	17.5	95.6	465.3	124.2	86.3
95°	38.5	113.7	1033.3	468.8	274.1
97.5°	59.5	123.0	1116.1	846.7	600.6
100°	81.6	141.1	1053.1	1196.6	909.7
102.5°	106.1	161.5	942.3	1492.8	1254.9
105°	131.8	184.2	845.5	1664.8	1545.2
107.5°	156.3	208.2	773.2	1713.2	1720.2
110°	183.1	233.2	725.4	1667.2	1799.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209.9	258.3	697.4	1570.9	1790.2
115°	235.6	284.0	678.7	1463.0	1721.3
117.5°	258.9	310.2	668.2	1365.0	1617.6
120°	282.2	335.3	661.2	1282.8	1517.3
122.5°	306.7	359.8	655.4	1217.0	1428.6
125°	326.5	382.5	650.8	1163.9	1356.3
127.5°	342.9	404.6	648.4	1118.4	1289.8
130°	358.0	425.6	646.1	1072.3	1237.4
132.5°	369.7	444.4	646.1	1022.8	1184.9
135°	382.5	460.0	646.1	975.6	1126.6
137.5°	398.8	474.6	647.3	926.0	1065.9
140°	412.8	486.9	648.4	880.5	1001.8
142.5°	429.2	498.6	649.6	841.4	942.3
145°	445.5	510.2	648.4	807.6	888.7
147.5°	463.0	520.8	646.1	778.4	840.8
150°	478.2	530.0	642.6	754.6	802.4
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)