

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: P1028083

Luminaire Tested: S125DIP-B610D375UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028083
REPORT IS A COMBINATION OF REPORTS P1002277 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D375UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

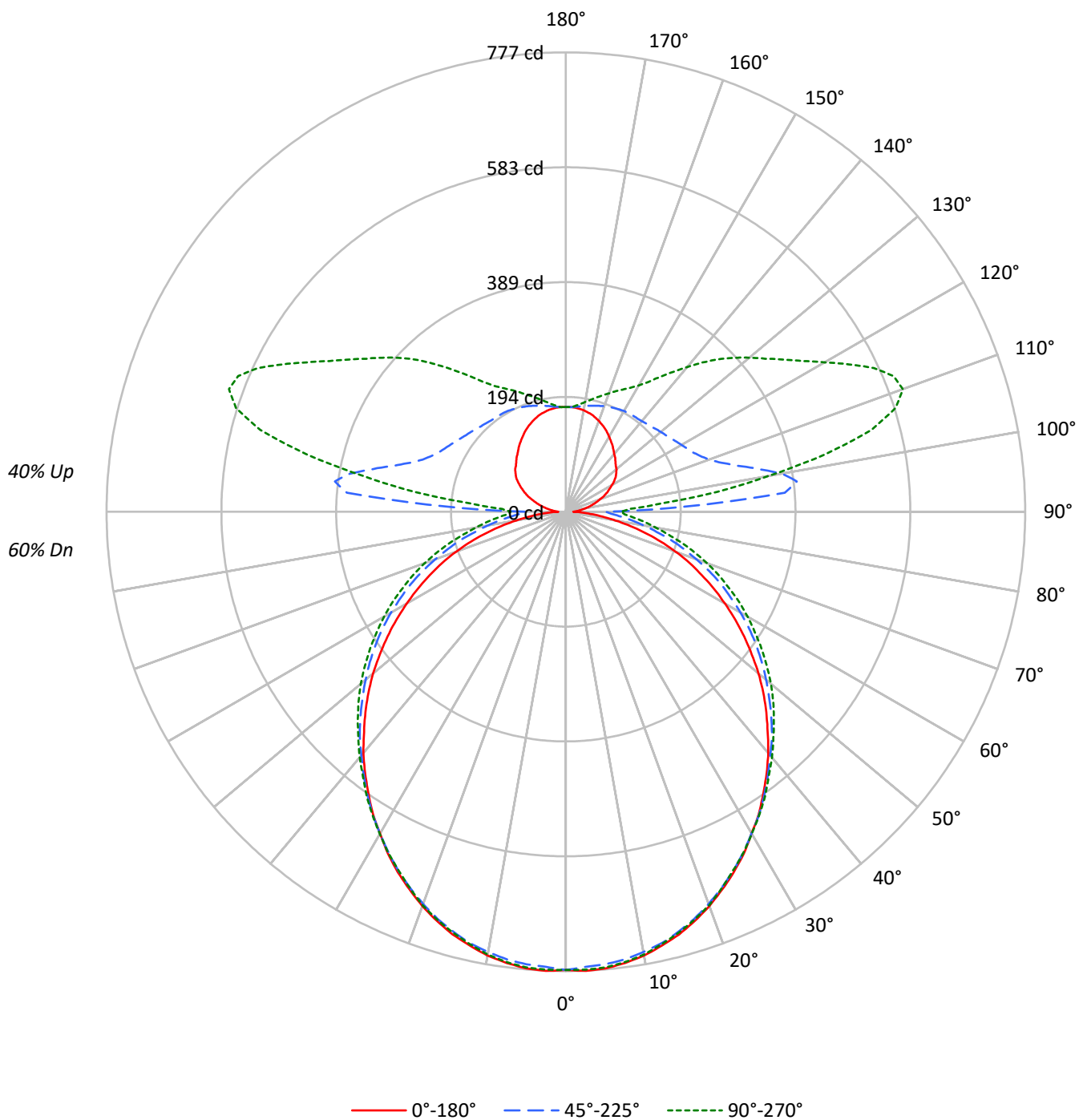
Lumens per Lamp: N/A
Luminaire Lumens: 3734.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	110	110	110	110		102	102	102	102		89	89	89		77	77	77		66	66	66
1	99	94	90	86		92	88	85	81		77	74	71		66	64	62		57	55	54
2	90	82	75	70		84	77	71	66		67	62	58		58	54	51		49	47	45
3	82	72	64	58		76	67	60	55		59	53	49		51	47	43		43	40	38
4	75	63	55	49		70	59	52	46		52	46	41		45	40	37		39	35	32
5	69	56	48	42		64	53	45	40		46	40	36		40	36	32		35	31	28
6	63	51	42	36		59	48	40	34		42	36	31		36	31	28		31	28	24
7	58	46	37	32		54	43	35	30		38	32	27		33	28	24		29	25	22
8	54	41	33	28		51	39	32	27		35	29	24		30	25	22		26	22	19
9	51	38	30	25		47	36	29	24		32	26	22		28	23	20		24	20	17
10	47	35	27	22		44	33	26	21		29	24	20		26	21	18		23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	2.0
10°-20°	208.2	5.6
20°-30°	309.6	8.3
30°-40°	366.7	9.8
40°-50°	379.1	10.1
50°-60°	349.2	9.3
60°-70°	282.3	7.6
70°-80°	188.9	5.1
80°-90°	98.3	2.6
90°-100°	188.4	5.0
100°-110°	317.6	8.5
110°-120°	285.9	7.7
120°-130°	224.8	6.0
130°-140°	175.0	4.7
140°-150°	128.3	3.4
150°-160°	89.4	2.4
160°-170°	52.7	1.4
170°-180°	17.1	0.5
0°-30°	591.2	15.8
0°-40°	957.8	25.6
0°-60°	1686.1	45.1
0°-90°	2255.6	60.4
90°-120°	791.9	21.2
90°-150°	1319.9	35.3
90°-180°	1479.0	39.6
0°-180°	3734.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	40	68	87	93	9
95°	22	64	372	216	161	20
105°	47	75	301	567	535	50
115°	77	97	237	491	575	76
125°	103	119	217	386	449	91
135°	119	142	204	315	365	92
145°	137	156	198	251	279	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	12.6	39.8	68.0	87.3	93.3
92.5°	16.0	62.0	201.8	114.0	107.7
95°	21.7	64.4	371.9	215.8	161.4
97.5°	27.3	65.1	394.1	327.6	257.6
100°	33.4	67.6	371.0	431.0	347.6
102.5°	40.1	71.4	334.1	517.8	449.5
105°	47.2	75.4	300.7	566.8	535.4
107.5°	53.9	80.4	275.5	578.6	585.2
110°	61.4	85.8	257.8	560.7	606.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	91.3	246.2	527.4	599.8
115°	76.7	96.9	237.4	491.2	575.0
117.5°	83.1	102.6	231.2	457.5	540.1
120°	90.2	108.8	226.1	429.3	505.6
122.5°	96.9	114.0	221.2	405.3	474.6
125°	103.0	119.4	216.8	386.0	448.7
127.5°	107.3	125.4	212.9	368.3	425.3
130°	111.9	131.8	210.0	351.1	405.5
132.5°	114.7	137.6	206.9	333.0	385.6
135°	118.6	141.6	203.9	314.7	364.7
137.5°	123.6	146.1	202.0	296.4	342.4
140°	127.2	149.9	200.0	279.5	319.6
142.5°	132.2	152.6	198.9	264.4	298.4
145°	137.2	156.2	198.5	251.1	278.9
147.5°	141.8	159.4	197.8	239.8	260.5
150°	146.4	162.3	196.8	231.0	246.5
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)