

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: P1027764

Luminaire Tested: S125DIP-B375D1090UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027764
REPORT IS A COMBINATION OF REPORTS P1001850 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

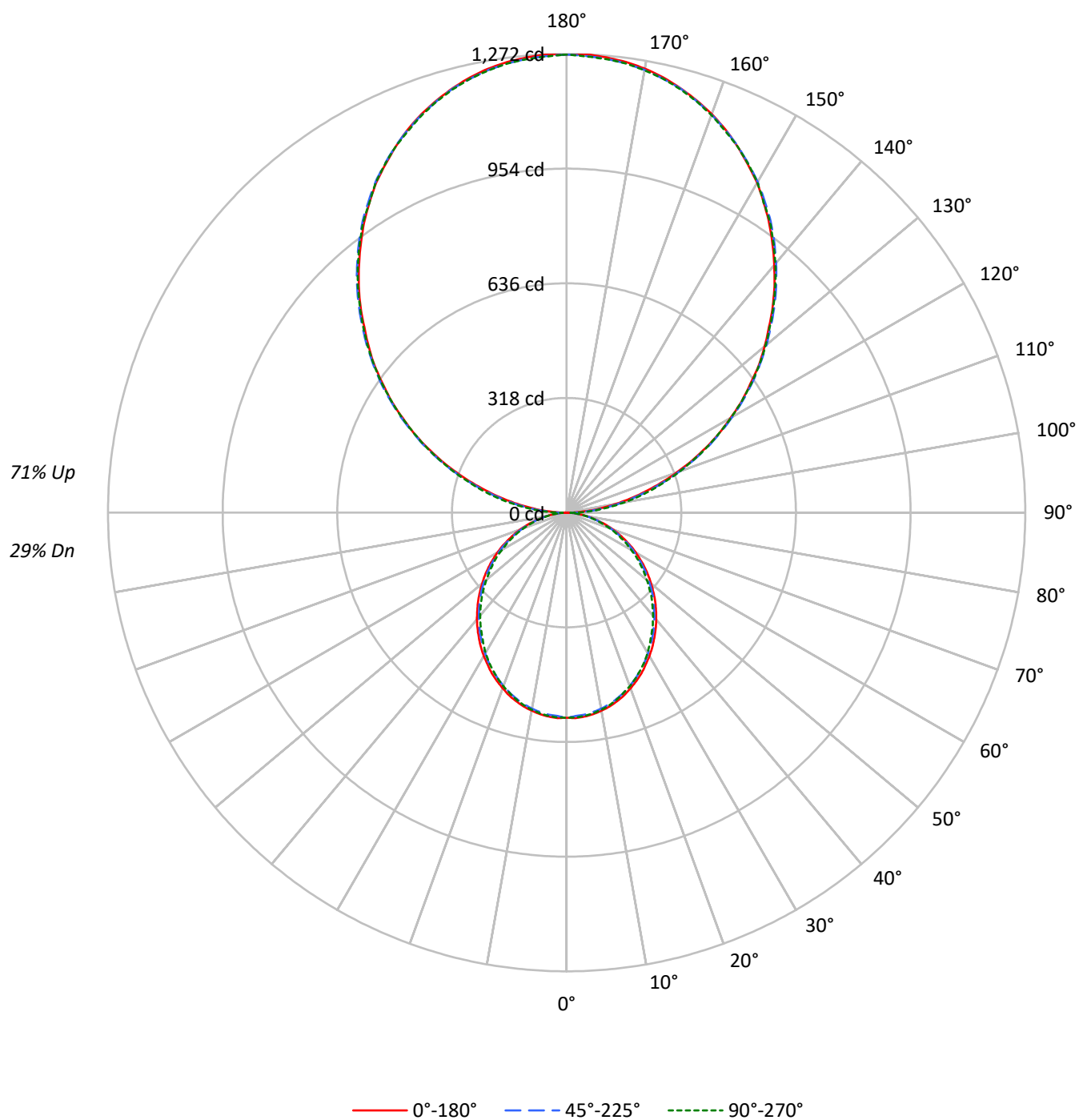
Lumens per Lamp: N/A
Luminaire Lumens: 5027.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	26	24	22
4	71	60	53	47	63	54	48	43	43	38	35	33	29	27	23	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	21	18	17
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	19	16	15
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3643	3643	3643
5°	3643	3559	3565
10°	3613	3477	3466
15°	3566	3380	3349
20°	3501	3266	3215
25°	3433	3143	3071
30°	3350	3014	2920
35°	3261	2879	2751
40°	3169	2737	2600
45°	3070	2598	2439
50°	2961	2441	2253
55°	2853	2267	2081
60°	2724	2084	1882
65°	2570	1872	1675
70°	2414	1629	1437
75°	2149	1341	1161
80°	1832	1002	854
85°	1412	593	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.1
10°-20°	151.6	3.0
20°-30°	223.8	4.5
30°-40°	261.1	5.2
40°-50°	262.2	5.2
50°-60°	230.2	4.6
60°-70°	171.4	3.4
70°-80°	97.9	1.9
80°-90°	30.2	0.6
90°-100°	84.5	1.7
100°-110°	250.9	5.0
110°-120°	425.6	8.5
120°-130°	560.2	11.1
130°-140°	627.8	12.5
140°-150°	615.3	12.2
150°-160°	516.9	10.3
160°-170°	343.6	6.8
170°-180°	120.2	2.4
0°-30°	429.0	8.5
0°-40°	690.0	13.7
0°-60°	1182.4	23.5
0°-90°	1482.0	29.5
90°-120°	761.0	15.1
90°-150°	2564.3	51.0
90°-180°	3545.0	70.5
0°-180°	5027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	567	562	566	566	54
15°	541	540	535	537	537	153
25°	491	489	483	484	483	226
35°	424	422	416	414	410	265
45°	347	346	340	335	333	268
55°	264	263	257	253	250	236
65°	179	178	173	169	167	177
75°	95	94	92	90	89	101
85°	25	25	25	25	24	27
90°	1	9	16	21	24	6
95°	64	66	76	83	85	67
105°	225	230	236	242	245	240
115°	426	430	432	431	430	421
125°	622	628	629	627	626	557
135°	809	814	816	816	812	623
145°	980	984	986	986	984	612
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.6	568.6	568.6	568.6	568.6
2.5°	570.4	569.1	564.6	569.1	568.6
5°	567.7	566.8	562.3	566.4	565.9
7.5°	563.7	562.8	557.8	561.9	561.4
10°	557.8	556.9	552.0	555.6	555.1
12.5°	550.6	548.8	544.3	547.0	547.0
15°	541.2	539.8	534.9	537.1	537.1
17.5°	531.3	529.0	524.1	526.8	524.5
20°	518.2	517.3	511.5	514.6	512.4
22.5°	505.2	503.4	498.0	499.8	498.4
25°	491.3	489.0	483.2	484.1	482.7
27.5°	475.1	473.7	467.9	468.3	467.0
30°	459.3	458.0	451.2	450.3	449.0
32.5°	442.2	440.0	434.1	432.3	429.6
35°	424.2	422.4	416.1	413.9	410.3
37.5°	405.8	403.5	397.7	394.5	392.3
40°	386.9	384.6	378.3	374.3	372.9
42.5°	366.6	364.8	358.5	354.9	352.7
45°	347.3	345.5	340.1	334.7	333.3
47.5°	326.2	326.6	319.9	314.5	311.3
50°	305.9	304.6	299.2	293.3	290.2
52.5°	285.2	284.3	278.5	273.5	269.9
55°	264.5	263.2	256.9	252.8	249.7
57.5°	242.5	242.0	236.6	231.2	229.9
60°	221.8	220.0	215.0	210.5	207.4
62.5°	200.2	198.8	194.8	189.8	187.6
65°	178.6	177.7	172.7	168.7	166.9
67.5°	157.5	155.7	152.1	148.5	147.6
70°	137.7	135.4	131.4	128.7	126.9
72.5°	116.1	114.7	112.5	109.3	107.5
75°	94.9	94.0	91.8	90.4	88.6
77.5°	75.1	74.7	73.3	72.4	71.1
80°	56.7	56.7	55.8	55.3	54.4
82.5°	40.5	39.6	39.6	38.7	38.7
85°	24.7	25.2	25.2	24.7	23.8
87.5°	12.1	12.1	11.7	11.7	10.8
90°	1.0	8.9	15.8	20.8	23.7
92.5°	29.7	34.6	43.5	50.4	52.4
95°	64.3	66.2	76.1	83.0	85.0
97.5°	98.8	99.8	113.7	119.6	120.6
100°	138.4	138.4	151.2	160.1	162.1
102.5°	180.9	185.8	190.8	200.7	203.6
105°	225.4	230.3	236.2	242.2	245.1
107.5°	273.8	278.8	283.7	286.7	286.7
110°	324.2	329.2	332.1	335.1	334.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.6	377.6	381.6	382.5	380.6
115°	426.0	430.0	432.0	431.0	430.0
117.5°	477.4	478.4	480.4	481.4	477.4
120°	524.9	529.8	530.8	530.8	526.9
122.5°	576.3	577.3	580.2	579.3	576.3
125°	621.8	627.7	628.7	626.7	625.7
127.5°	672.2	675.1	676.1	675.1	673.2
130°	716.6	721.6	723.6	722.6	720.6
132.5°	761.1	770.0	769.0	768.1	765.1
135°	808.6	814.5	815.5	815.5	811.5
137.5°	853.1	859.0	861.0	862.0	857.0
140°	895.6	900.5	903.5	905.4	900.5
142.5°	938.1	942.0	946.0	947.0	942.0
145°	979.6	983.5	986.5	986.5	983.5
147.5°	1018.1	1021.1	1023.1	1026.0	1018.1
150°	1056.7	1055.7	1059.7	1059.7	1057.7
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)