

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: P1027761

Luminaire Tested: S125DIP-B375D1090UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027761
REPORT IS A COMBINATION OF REPORTS P1001847 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-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

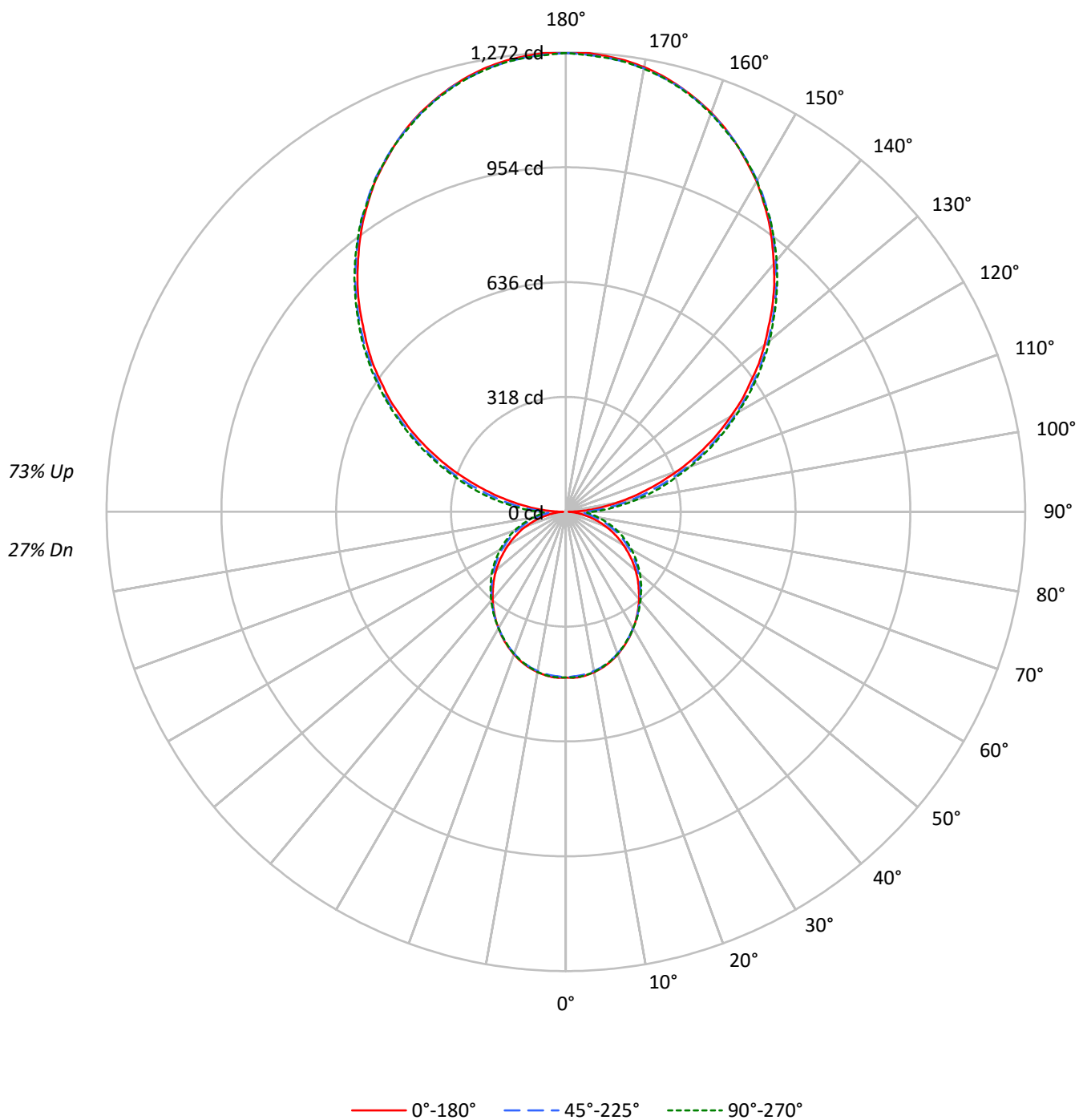
Lumens per Lamp: N/A
Luminaire Lumens: 4969.2 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	52	52	52	35	35	35
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	29	29
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	25	24
3	76	67	60	54	68	60	54	49	47	42	39	35	32	29	23	21	20
4	70	59	51	45	62	53	46	41	41	37	33	31	27	25	21	19	17
5	64	52	45	39	57	47	40	35	37	32	28	27	24	21	18	16	15
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10
9	46	35	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	28	22	18	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.9
10°-20°	123.3	2.5
20°-30°	183.4	3.7
30°-40°	217.2	4.4
40°-50°	224.5	4.5
50°-60°	206.8	4.2
60°-70°	167.2	3.4
70°-80°	111.9	2.3
80°-90°	59.8	1.2
90°-100°	117.1	2.4
100°-110°	275.0	5.5
110°-120°	441.7	8.9
120°-130°	569.4	11.5
130°-140°	631.8	12.7
140°-150°	616.1	12.4
150°-160°	516.9	10.4
160°-170°	343.6	6.9
170°-180°	120.2	2.4
0°-30°	350.1	7.0
0°-40°	567.3	11.4
0°-60°	998.6	20.1
0°-90°	1337.5	26.9
90°-120°	833.7	16.8
90°-150°	2651.0	53.3
90°-180°	3632.0	73.1
0°-180°	4969.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	30	53	68	74	9
95°	70	84	109	126	131	72
105°	230	242	261	276	282	245
115°	429	436	450	457	458	424
125°	624	629	639	644	646	559
135°	810	815	819	825	823	624
145°	980	984	986	989	988	613
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°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.2	30.5	52.7	68.1	74.1
92.5°	36.0	54.0	78.6	95.4	100.6
95°	70.2	83.8	109.0	125.8	130.9
97.5°	104.2	116.0	144.8	160.1	164.3
100°	143.4	152.8	180.0	198.4	203.1
102.5°	185.4	198.9	217.8	236.7	242.3
105°	229.5	241.6	261.0	276.0	282.0
107.5°	277.4	288.7	306.7	318.7	321.4
110°	327.4	337.8	353.3	364.8	367.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.8	384.8	401.0	410.0	411.2
115°	428.7	435.9	449.6	456.7	458.4
117.5°	479.7	482.9	496.2	504.8	504.0
120°	527.2	533.4	544.8	552.4	551.2
122.5°	578.1	579.6	592.4	598.7	598.4
125°	623.6	629.1	639.1	644.3	645.5
127.5°	673.6	676.0	684.7	690.4	691.2
130°	718.0	722.5	730.8	736.1	736.4
132.5°	762.0	770.9	774.4	779.8	778.6
135°	809.5	815.0	819.1	825.0	823.2
137.5°	854.0	859.5	863.3	869.7	866.5
140°	896.1	901.0	904.4	911.3	908.2
142.5°	938.6	942.0	946.0	951.1	947.9
145°	980.1	983.5	986.5	988.8	987.6
147.5°	1018.1	1021.1	1023.1	1026.9	1019.9
150°	1056.7	1055.7	1059.7	1059.7	1058.2
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)