

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: P1027752

Luminaire Tested: S125DIP-B375D1090UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027752
REPORT IS A COMBINATION OF REPORTS P1001823 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

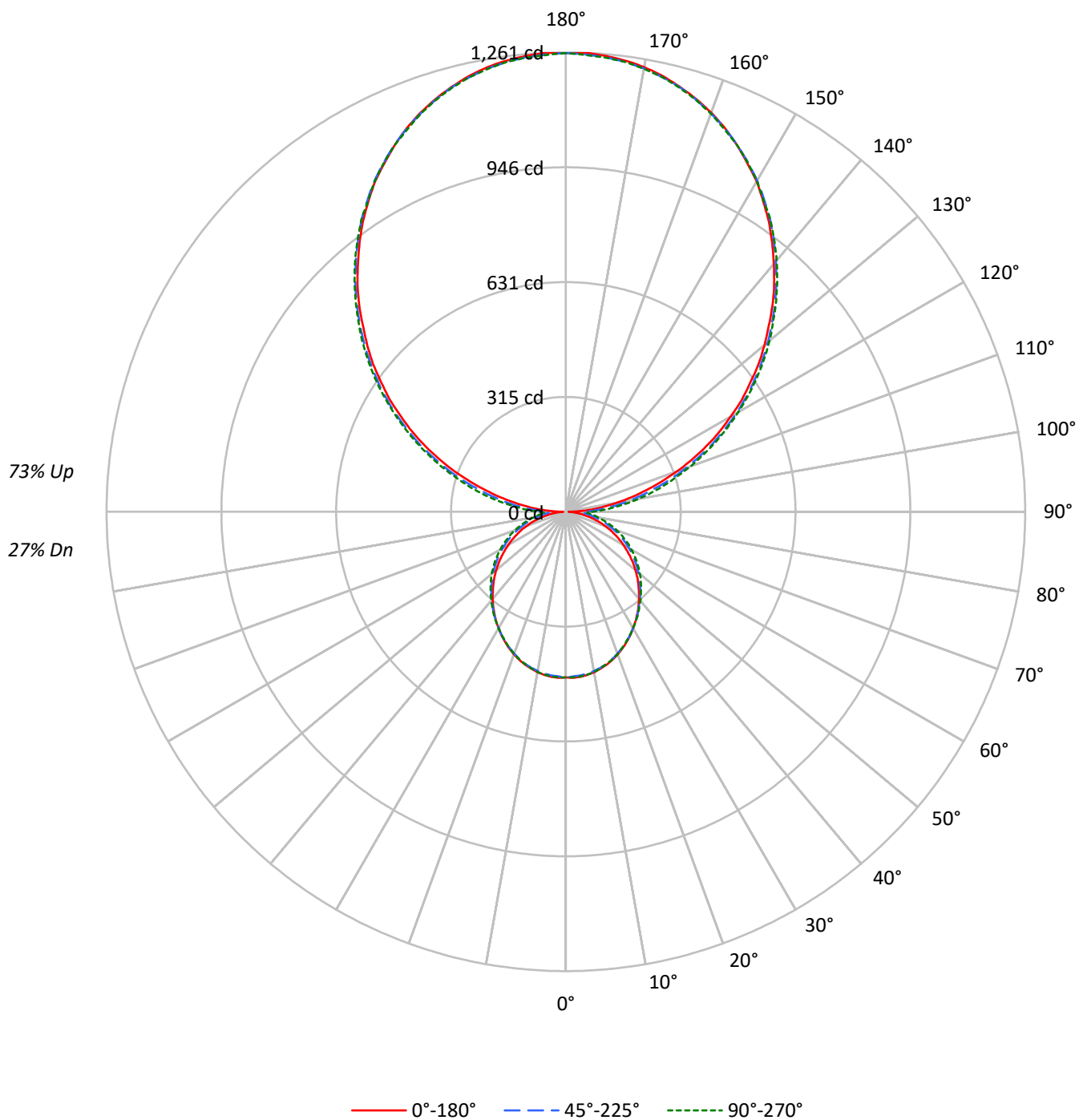
Lumens per Lamp: N/A
Luminaire Lumens: 4925.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (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	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°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.9
10°-20°	122.2	2.5
20°-30°	181.7	3.7
30°-40°	215.2	4.4
40°-50°	222.5	4.5
50°-60°	204.9	4.2
60°-70°	165.7	3.4
70°-80°	110.8	2.3
80°-90°	59.2	1.2
90°-100°	116.0	2.4
100°-110°	272.5	5.5
110°-120°	437.8	8.9
120°-130°	564.4	11.5
130°-140°	626.2	12.7
140°-150°	610.7	12.4
150°-160°	512.4	10.4
160°-170°	340.6	6.9
170°-180°	119.2	2.4
0°-30°	346.9	7.0
0°-40°	562.1	11.4
0°-60°	989.5	20.1
0°-90°	1325.2	26.9
90°-120°	826.3	16.8
90°-150°	2627.6	53.4
90°-180°	3600.0	73.1
0°-180°	4925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	30	52	67	73	9
95°	70	83	108	125	130	71
105°	227	239	259	274	280	242
115°	425	432	446	453	454	420
125°	618	624	634	639	640	554
135°	802	808	812	818	816	618
145°	971	975	978	980	979	607
155°	1111	1111	1112	1116	1111	512
165°	1208	1206	1207	1211	1205	341
175°	1256	1252	1252	1258	1251	119
180°	1259	1259	1259	1259	1259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.1	30.2	52.3	67.4	73.4
92.5°	35.6	53.5	77.9	94.6	99.6
95°	69.5	83.0	108.0	124.7	129.8
97.5°	103.4	115.1	143.5	158.7	162.8
100°	142.1	151.5	178.4	196.6	201.3
102.5°	183.8	197.1	215.9	234.6	240.1
105°	227.4	239.4	258.7	273.5	279.6
107.5°	275.0	286.1	303.9	315.9	318.5
110°	324.5	334.8	350.2	361.6	363.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.4	381.4	397.4	406.4	407.5
115°	425.0	432.0	445.6	452.6	454.3
117.5°	475.5	478.7	491.8	500.4	499.6
120°	522.5	528.8	540.0	547.6	546.4
122.5°	573.0	574.4	587.2	593.4	593.0
125°	618.1	623.5	633.5	638.6	639.8
127.5°	667.6	670.1	678.7	684.4	685.1
130°	711.7	716.2	724.3	729.7	729.9
132.5°	755.4	764.2	767.7	772.9	771.8
135°	802.4	807.8	812.0	817.8	816.1
137.5°	846.5	851.9	855.6	862.0	858.9
140°	888.1	893.0	896.5	903.3	900.2
142.5°	930.3	933.8	937.7	942.7	939.6
145°	971.4	974.9	977.9	980.1	978.9
147.5°	1009.2	1012.2	1014.1	1018.0	1011.0
150°	1047.5	1046.5	1050.4	1050.4	1048.8
152.5°	1078.8	1080.8	1081.7	1084.7	1080.8
155°	1111.1	1111.1	1112.1	1116.0	1111.1
157.5°	1140.5	1138.6	1139.6	1143.5	1136.6
160°	1166.0	1163.1	1164.1	1168.0	1163.1
162.5°	1188.5	1186.6	1186.6	1191.5	1185.6
165°	1208.1	1206.2	1207.2	1211.1	1205.2
167.5°	1225.8	1221.9	1221.9	1227.7	1221.9
170°	1239.5	1235.6	1235.6	1241.5	1234.6
172.5°	1249.3	1245.4	1245.4	1251.3	1245.4
175°	1256.2	1252.2	1252.2	1258.1	1251.3
177.5°	1261.1	1257.1	1256.2	1262.0	1255.2
180°	1259.1	1259.1	1259.1	1259.1	1259.1

(END OF REPORT)