

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: P1027872

Luminaire Tested: S125DIP-B375D375UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027872
REPORT IS A COMBINATION OF REPORTS P1001988 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

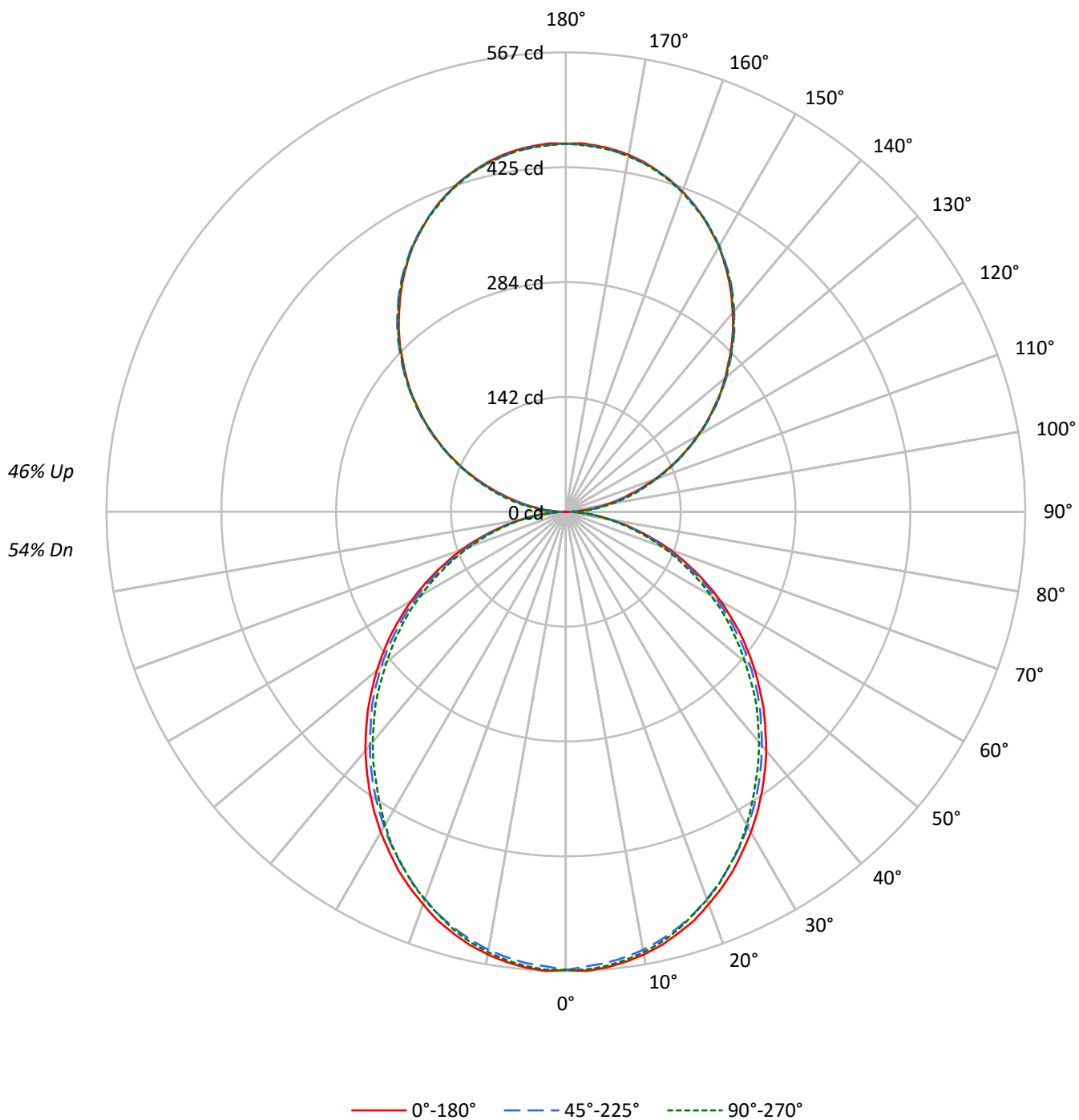
Lumens per Lamp: N/A
Luminaire Lumens: 2741.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	53	51	50
2	90	82	76	71	83	76	71	66	66	61	58	55	53	50	46	44	42
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	52	47	51	46	41	44	40	36	37	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	30	25	22	25	22	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.9
10°-20°	150.7	5.5
20°-30°	222.5	8.1
30°-40°	259.6	9.5
40°-50°	260.8	9.5
50°-60°	228.9	8.4
60°-70°	170.5	6.2
70°-80°	97.4	3.6
80°-90°	28.8	1.1
90°-100°	30.2	1.1
100°-110°	89.8	3.3
110°-120°	152.3	5.6
120°-130°	200.4	7.3
130°-140°	224.6	8.2
140°-150°	220.1	8.0
150°-160°	184.9	6.7
160°-170°	122.9	4.5
170°-180°	43.0	1.6
0°-30°	426.7	15.6
0°-40°	686.3	25.0
0°-60°	1176.0	42.9
0°-90°	1472.7	53.7
90°-120°	272.3	9.9
90°-150°	917.4	33.5
90°-180°	1268.0	46.3
0°-180°	2741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	0	3	6	7	8	3
95°	23	24	27	30	30	24
105°	81	82	84	87	88	86
115°	152	154	154	154	154	151
125°	222	225	225	224	224	199
135°	289	291	292	292	290	223
145°	350	352	353	353	352	219
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	0.4	3.2	5.7	7.4	8.5
92.5°	10.6	12.4	15.6	18.0	18.7
95°	23.0	23.7	27.2	29.7	30.4
97.5°	35.4	35.7	40.7	42.8	43.1
100°	49.5	49.5	54.1	57.3	58.0
102.5°	64.7	66.5	68.3	71.8	72.9
105°	80.6	82.4	84.5	86.6	87.7
107.5°	98.0	99.7	101.5	102.6	102.6
110°	116.0	117.8	118.8	119.9	119.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.4	135.1	136.5	136.9	136.2
115°	152.4	153.8	154.5	154.2	153.8
117.5°	170.8	171.2	171.9	172.2	170.8
120°	187.8	189.6	189.9	189.9	188.5
122.5°	206.2	206.5	207.6	207.2	206.2
125°	222.4	224.6	224.9	224.2	223.9
127.5°	240.5	241.5	241.9	241.5	240.8
130°	256.4	258.2	258.9	258.5	257.8
132.5°	272.3	275.5	275.1	274.8	273.7
135°	289.3	291.4	291.8	291.8	290.3
137.5°	305.2	307.3	308.0	308.4	306.6
140°	320.4	322.2	323.2	323.9	322.2
142.5°	335.6	337.0	338.4	338.8	337.0
145°	350.5	351.9	352.9	352.9	351.9
147.5°	364.3	365.3	366.0	367.1	364.3
150°	378.0	377.7	379.1	379.1	378.4
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)